

TEMPE • ARIZONA



Capital Improvements Program Budget
July 1, 2014 - June 30, 2015

Tempe Mayor & City Council



Mark Mitchell
Mayor



Onnie Shekerjian
Vice Mayor



Robin Arredondo-Savage
Council Member



Shana Ellis
Council Member



Kolby Granville
Council Member



Joel Navarro
Council Member



Corey Woods
Council Member





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Capital Improvements Program Overview

Pursuant to the Tempe City Charter, the City Manager prepares and submits a Capital Improvements Program (CIP) annually to the Council. The CIP is a five-year financial plan for the acquisition, construction, expansion, or rehabilitation of infrastructure and capital assets. Capital projects typically have one or more of the following characteristics: (1) expenditures which take place over two or more years, requiring continuing appropriations beyond a single fiscal year; (2) funding with debt because of significant costs to be shared by current and future beneficiaries; (3) creation or revitalization of a fixed asset with a minimum useful life of five years; (4) systematic asset acquisition over an extended period of time; and (5) scheduled replacement or maintenance of specific elements of physical assets. The following are some examples of items that are included within the definition of capital expenditures:

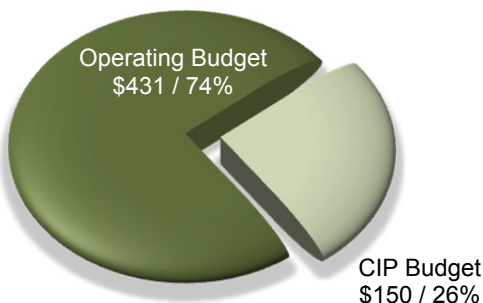
- Construction of new facilities
- Remodeling, expansion, and maintenance of existing facilities
- Purchase, improvement, or development of land
- Operating equipment and machinery for existing and new facilities
- Planning and engineering costs related to specific capital improvements
- Street resurfacing, renovation, or reconstruction
- Emergency vehicles
- Information Technology infrastructure

Although capital projects are scheduled throughout the five-year plan, only those projects during the first year of the plan are adopted as part of the City's annual budget. The first year of the CIP constitutes the capital budget. The remaining years within the CIP serve as a guide for future planning and are subject to annual review and modification in subsequent years.

As shown in the charts below, the City of Tempe's total financial program for fiscal year (FY) 2014-15 totals \$581 million, and of this amount, \$150.4 million is for projects included in the capital budget. The capital budget consists of the following program areas: Enterprise, Special Purpose, General Purpose, and Transportation projects.

The Enterprise program totals \$43.8 million and includes water, wastewater and golf projects accounting for 29% of the total capital budget in FY 2014-15. The Special Purpose program includes transit projects, and totals \$27.4 million, or 18%, of funded projects in FY 2014-15. The General Purpose program includes police protection, fire protection, storm drains, parks and general governmental projects and totals \$68.7 million or 46% of the capital budget. The Transportation program includes lighting and traffic signal projects, and street and sidewalk renovation and construction projects. Transportation program funding totals \$10.5 million.

FY 2014-15 Total Financial Program	
Operating Budget	\$430.7
Capital Budget	\$150.4
Total (\$ millions)	\$581.1



Comparison of FY 2013-14 and FY 2014-15 Capital Budgets		
Capital Program	FY 2013-14 Budget	FY 2014-15 Budget
Enterprise		
Water	\$ 27,447,487	\$ 32,259,400
Wastewater	10,118,974	8,844,287
Golf	674,000	2,700,000
Special Purpose		
Transit	15,521,005	27,380,381
General Purpose		
Police	2,745,512	3,487,063
Fire	2,556,829	4,082,186
Storm Drains	896,062	782,591
Park Improvements	29,100,582	51,026,321
General Governmental	15,257,687	9,347,558
Transportation		
Transportation and R.O.W	12,256,356	7,877,198
Traffic Signals / Street Lighting	2,952,915	2,651,481
Total	\$ 119,527,409	\$ 150,438,466

2014-15 CIP Process

Early November 2013 City department heads, capital project managers, and Financial Services staff launched the 2014-15 CIP process with a meeting to review the capital budget calendar and estimated availability of funds. Financial Services staff provided guidance regarding the information CIP project managers should provide to substantiate requests for FY 2014-15 project funding. This included a detailed review of the information required to complete CIP project request forms. Continued emphasis was placed on the importance of providing accurate project completion timelines, and validating ongoing project costs with detailed schedules for the replacement and maintenance of City assets.

After all project submissions were received, a series of follow-up meetings were held over the ensuing months with department directors and other key department representatives to discuss changes to previously approved projects and to review new project requests. Over the same period of time, Financial Services staff estimated the City's capacity to enter into additional General Obligation (G.O) debt to fund capital projects over the upcoming five year period of the CIP, and worked to identify all other potential project funding sources.

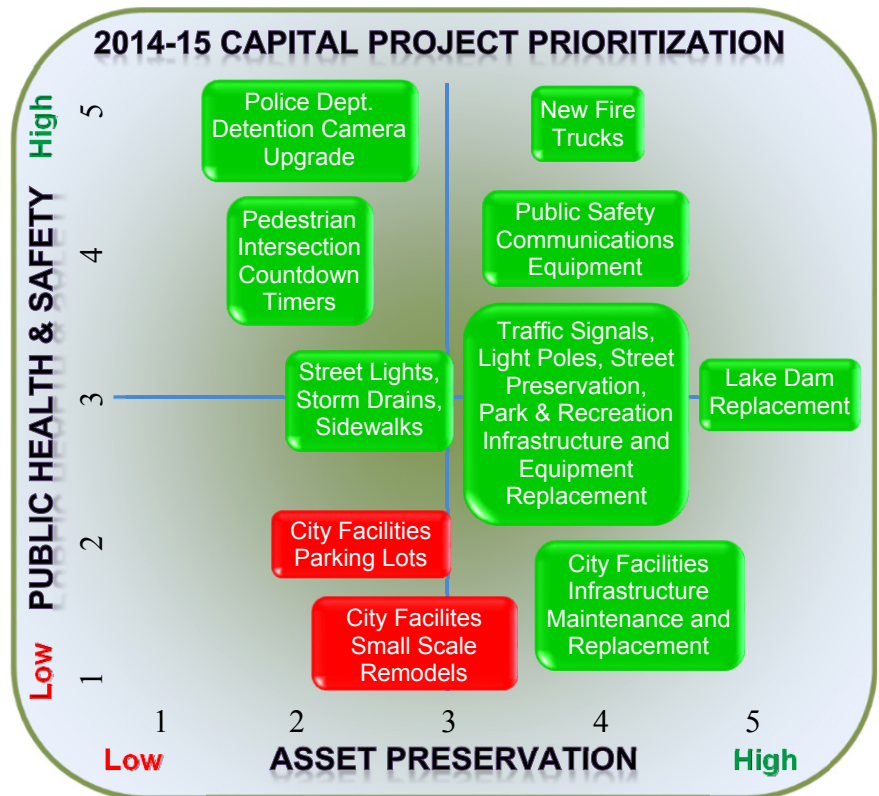
Unlike capital project programs like transit and water and wastewater which have dedicated funding sources; several general purpose project program areas are eligible for G.O bond funding as approved by Tempe voters.

Since total costs associated with projects submitted with G.O. bonds as the proposed funding source far exceeded the amount of G.O. bonds the City can afford to issue over the next five years, those projects were prioritized and ranked according to established criteria to identify the most critical capital requirements. Specifically, projects were graded based on the degree to which they contributed to the preservation of City assets, and the degree to which they addressed public health and safety concerns (depicted in the diagram to the right).

As a result, the top priority G.O. funded projects recommended by staff were those necessary to maintain or replace existing assets, and projects that would enable the City to continue operating at existing service levels.

It is important to note transit and water / wastewater projects were also evaluated for necessity based on adherence to the City's asset management practices, and the degree to which they addressed public health and safety concerns; however they were not subjected to a rigorous prioritization process because total project costs fell within the funding levels available to the respective program areas. This is somewhat by design since funding availability for these areas is measured by transit and water / wastewater fund managers who work closely with the project managers.

Finally, during three City Council Issue Review Sessions held between February and April 2014, staff presented, for Council's consideration, all capital projects originally submitted by departments, as well as staff's recommended prioritization of G.O. bond funded projects. Also during these sessions, Financial Services discussed the financial and legal funding variables used to determine the total potential monetary size of the next five year CIP (discussed further below under Capital Program Financing). Consequently, on June 12th a balanced final five year capital program was presented for Council adoption.

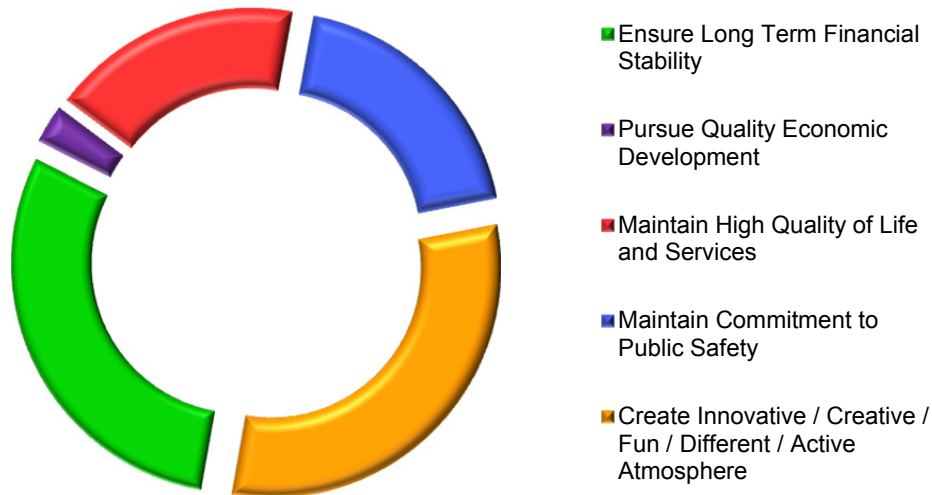


The diagram above illustrates how the general purpose G.O. bond funded projects requested in the FY 2014-15 CIP process were scored and prioritized based on the degree to which they contribute to the preservation of City assets, and the degree to which they address public health and safety concerns. Projects in green categories are included in the 2014-15 adopted five year CIP; projects in red categories were considered relatively lower priorities and fell just outside of the G.O. bond funding range.

Capital Budget Strategic Priorities

At their annual summit, the City Council identified the five strategic priorities listed below to guide The City of Tempe's operations over the next three to five years. The diagram below displays how the capital expenditures included in the adopted FY 2014-15 capital budget are aligned with the City Council's strategic priorities.

1. Ensure Long Term Financial Stability
2. Pursue Quality Economic Development
3. Maintain High Quality of Life and Services
4. Maintain Commitment to Public Safety
5. Create Innovative / Creative / Fun / Different / Active Atmosphere



The Create Innovative / Creative / Fun / Different / Active Atmosphere priority accounts for approximately 31% of FY 2014-15 capital budget expenditures. In very large part this is because construction of the new \$38.7 million Tempe Town Lake dam is included in this category. Tempe Town Lake is a premier hub of activity not only for the City of Tempe, but for the entire Phoenix metropolitan area. It is host to many special events, water and land sports, and is adjacent to all the attractions of downtown Tempe. This priority is also represented by several projects that will improve City recreation elements, as well as several pedestrian and bicycle friendly multi use path projects.

The strategic priority to Ensure Long Term Financial Stability captures projects spanning all capital project program areas and exemplifies the City's focus on maintaining its existing core infrastructure through preventative and ongoing asset maintenance and replacement projects.

All projects under the police and fire protection programs are included in the Maintain Commitment to Public Safety strategic priority. This category is also represented by several other capital programs with projects that maintain City infrastructure that contributes to public safety on an everyday basis. These projects include water treatment and distribution, traffic signal repair and replacement, and street lighting.

The priority to Maintain High Quality of Life and Services is represented by projects that address the condition of neighborhood parks and park amenities, City right of way landscape revitalization, projects under the Municipal Arts Program, and significant pedestrian and bicycle friendly streetscape projects.

FY 2014-15 projects supporting economic development contribute to improved transportation flow within the City through the installation of technology that monitors traffic congestion, and projects that seek to improve downtown accessibility.

Fiscal Years 2014-15 through 2018-19 Capital Improvements Program Summary

Program	Capital Budget Re-appropriations	New 2014-15 Capital Budget Appropriations	Total 2014-15 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
				2015-16	2016-17	2017-18	2018-19	
Enterprise Program								
Water	15,808,641	16,450,759	32,259,400	14,574,938	9,173,604	10,599,538	8,105,867	74,713,347
Wastewater	7,770,507	1,073,780	8,844,287	5,396,510	12,685,376	22,051,266	8,260,848	57,238,287
Golf	200,000	2,500,000	2,700,000	-	-	-	-	2,700,000
Total Enterprise	23,779,148	20,024,539	43,803,687	19,971,448	21,858,980	32,650,804	16,366,715	134,651,634
Special Purpose Program								
Transit	12,214,475	15,165,906	27,380,381	6,454,807	5,705,173	2,685,542	1,443,726	43,669,629
Total Special Purpose	12,214,475	15,165,906	27,380,381	6,454,807	5,705,173	2,685,542	1,443,726	43,669,629
General Purpose Program								
Police Protection	755,000	2,732,063	3,487,063	3,330,663	4,105,327	4,193,412	2,254,208	17,370,673
Fire Protection	2,382,186	1,700,000	4,082,186	550,000	1,132,800	622,000	568,000	6,954,986
Storm Drains	582,591	200,000	782,591	200,000	300,000	300,000	300,000	1,882,591
Park / Recreation Improvements	24,676,240	26,350,081	51,026,321	1,885,200	3,163,981	3,490,845	3,592,796	63,159,143
General Governmental	4,865,184	4,482,374	9,347,558	4,174,010	5,432,098	5,046,991	3,897,621	27,898,278
Total General Purpose	33,261,201	35,464,518	68,725,719	10,139,873	14,134,206	13,653,248	10,612,625	117,265,671
Transportation								
Transportation and R.O.W.	2,836,221	5,040,977	7,877,198	3,805,877	5,945,767	6,439,995	7,716,995	31,785,831
Traffic Signals/Street Lighting	1,478,517	1,172,964	2,651,481	1,712,149	1,893,081	1,791,028	850,000	8,897,739
Total Transportation	4,314,738	6,213,941	10,528,679	5,518,026	7,838,848	8,231,023	8,566,995	40,683,571
TOTAL PROGRAM	73,569,562	76,868,904	150,438,466	42,084,154	49,537,207	57,220,616	36,990,060	336,270,504

Fiscal Years 2014-15 through 2018-19

Capital Improvements Program Source of Funds Summary

Program	Capital Budget Re-appropriations	New 2014-15 Capital Budget Appropriations	Total 2014-15 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
				2015-16	2016-17	2017-18	2018-19	
Enterprise Supported								
Water / Wastewater Bonds	22,773,652	16,474,539	39,248,191	16,853,690	21,032,775	31,774,599	15,490,510	124,399,765
Water / Wastewater Fund	-	-	-	3,117,758	826,205	826,205	826,205	5,596,373
Capital Projects Fund Balance	305,496	1,050,000	1,355,496	-	-	50,000	50,000	1,455,496
Development Fees	500,000	-	500,000	-	-	-	-	500,000
Water / Wastewater Fund - Loan	200,000	2,500,000	2,700,000	-	-	-	-	2,700,000
Total Enterprise Supported	23,779,148	20,024,539	43,803,687	19,971,448	21,858,980	32,650,804	16,366,715	134,651,634
Special Purpose								
Transit								
Transit Tax	7,346,286	5,389,812	12,736,098	3,172,750	2,459,196	1,485,542	1,443,726	21,297,312
Federal Grants	4,868,189	9,071,094	13,939,283	3,282,057	3,245,977	1,200,000	-	21,667,317
MAG - Safety Funds	-	705,000	705,000	-	-	-	-	705,000
Total Transit	12,214,475	15,165,906	27,380,381	6,454,807	5,705,173	2,685,542	1,443,726	43,669,629
Total Special Purpose	12,214,475	15,165,906	27,380,381	6,454,807	5,705,173	2,685,542	1,443,726	43,669,629
General Purpose								
General Obligation Bonds	22,726,221	26,112,771	48,838,992	9,670,192	6,622,154	3,386,240	300,000	68,817,578
G.O. Bonds Election Required	-	-	-	-	7,012,838	10,086,436	10,051,234	27,150,507
Capital Projects Fund Balance	4,307,621	2,897,833	7,205,454	-	-	-	-	7,205,454
Capital Improvements Reserve	-	2,821,300	2,821,300	17,750	31,550	3,900	4,400	2,878,900
Debt Service Fund	-	2,000,000	2,000,000	-	-	-	-	2,000,000
Municipal Arts Fund	310,359	417,396	727,754	-	-	-	-	727,754
Performing Arts Fund	-	100,000	100,000	-	-	-	-	100,000
Solid Waste Fund	80,000	197,150	277,150	100,820	140,880	53,822	55,088	627,760
Transit Tax	30,000	-	30,000	23,710	23,710	-	-	77,420
Water / Wastewater Fund	7,000	535,568	542,569	279,901	255,574	75,350	154,403	1,307,797
Cash	5,800,000	200,000	6,000,000	-	-	-	-	6,000,000
Residential Development Fee	-	60,000	60,000	-	-	-	-	60,000
Diablo Stadium Revenue	-	122,500	122,500	47,500	47,500	47,500	47,500	312,500
Total General Purpose	33,261,201	35,464,518	68,725,719	10,139,873	14,134,206	13,653,248	10,612,625	117,265,671
Transportation								
General Obligation Bonds	917,868	2,588,078	3,505,946	4,381,554	6,555,222	7,043,634	8,266,995	29,753,351
Capital Projects Fund Balance	476,043	-	476,043	-	-	-	-	476,043
Highway User Revenue Fund	230,000	3,277,029	3,507,029	300,000	300,000	300,000	300,000	4,707,029
Developer Assistance	180,000	-	180,000	-	-	-	-	180,000
Federal Grants	2,510,827	348,834	2,859,661	836,472	983,626	887,389	-	5,567,148
Total Transportation	4,314,738	6,213,941	10,528,679	5,518,026	7,838,848	8,231,023	8,566,995	40,683,571
TOTAL PROGRAM	73,569,562	76,868,904	150,438,466	42,084,154	49,537,207	57,220,616	36,990,060	336,270,504

CIP Impact on the Operating Budget

Although the City of Tempe prepares the capital budget separate from the operating budget, the two budgets are linked. These links include ongoing operating, maintenance and repair costs associated with new or renovated facilities and infrastructure. CIP projects also often necessitate the addition of new personnel required to staff or maintain new buildings or outdoor recreational areas. On the other hand, CIP projects may produce new revenue streams in the form of fees paid for the use of new or expanded facilities, or new operating revenue generated from infrastructure enhancements that promote new economic development and activity within the City.

The new FY 2014-15 operating costs shown below are incorporated in the City's adopted operating budget. In addition to current year operating budget impacts, future operating costs associated with current and planned projects are identified in the capital budget process to aid in long-range planning. Since the City Council only formally adopts operating and capital budgets on an annual basis, the 'out-year' impacts represent a forecast based on the current scope of the project and inflation assumptions. As such, they will be subject to revision in future years. The table below shows the estimated new recurring operating budget impacts associated with projects included in the adopted five year CIP.

New Recurring Operating and Maintenance Impacts: FYs 2014-15 to FY 2018-19						
Capital Projects by Fund	Cost Category	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19
General Fund						
CAD / RMS / FRWS	IT Administration	\$ 245,000	\$ -	\$ -	\$ -	\$ -
City Regional Radio System Maintenance and Replacement	Hardware Maintenance	84,000	-	-	-	-
Desktop Technology Refresh - Green Initiative	Contracted Services	50,000				
Digital Evidence System	Software Maintenance & Storage	10,025	37,800	37,800	-	-
General Fund Total		389,025	37,800	37,800	-	-
RICO Fund						
Digital Evidence System	Software Maintenance & Storage	100,000	-	-	-	-
Transit Fund						
Alameda Drive & I-10 Bicycle / Pedestrian Bridge	Landscape & Lighting Maintenance	-	-	-	-	6,500
Broadway Road Streetscape Project	Landscape & Lighting Maintenance	26,500	-	-	-	-
Creamery Branch Rail Path	Landscape & Lighting Maintenance	-	-	-	23,000	-
El Paso Natural Gasline Easement Multi-use Path Phase III	Landscape & Lighting Maintenance	21,500	-	-	-	-
Hardy Drive Streetscape Project	Landscape & Lighting Maintenance	21,500	-	-	-	-
Highline Canal Path (Baseline - Knox Road)	Landscape & Lighting Maintenance	-	-	-	40,000	-
Rio Salado Southbank Path Underpass at 101 & 202 Freeway Interchange	Landscape & Lighting Maintenance	4,000	-	-	-	-
University Drive Bike / Ped Improvements (Union Pacific Railroad to Priest)	Landscape & Lighting Maintenance	28,000	-	-	-	-
Transit Fund Total		101,500	-	-	63,000	6,500
Water / Wastewater Fund						
Automated Meter Reading Systems	Software Maintenance & Storage	\$ -	\$ -	\$ 15,000	\$ -	\$ -
City of Tempe Total		\$ 590,525	\$ 37,800	\$ 52,800	\$ 63,000	\$ 6,500

CIP – Significant Nonrecurring Projects

These are permanent projects that are exceptional and typically “one time” in nature and involve the construction of new facilities or City infrastructure, extensive renovation or addition to existing facilities, or that appreciably contribute to the City’s General Plan particularly with regard to sustainable land use, economic development and regional connectivity.

Town Lake Dam Replacement

Project Number: 6504229
Start Date: 07/05/2012
Estimated Completion Date: 12/31/2015

Program: General Purpose
Sub Program: Park Improvements / Recreation
Managing Department: Public Works / Engineering



Click [HERE TO SEE a VIDEO](#) of the future Tempe Town Lake dam in operation.

Project Description and Benefit

Based on the contractual agreement between the City and Bridgestone, the temporary rubber bladders west dam of the Tempe Town Lake must be replaced by the City by the end of December, 2015. In July of 2011, the City initiated a project to select, design and construct the “best - value” solution for replacement of the Tempe Town Lake downstream dam. In January 2012, the City selected a hydraulically operated steel gate to replace the existing rubber bladders. Since then, the contracted engineer has reached 90 percent completion of steel gate dam design. The construction is anticipated to start in the first half of 2014.

Tempe Town Lake is a major element of the City’s identity, and residents enjoy the many activities and events that take place around the lake throughout the year. Replacement of the lake’s dam(s) represents a major investment in the sustainability of this important attraction and ensures the lake will remain a pleasant and safe leisure opportunity destination for residents into the future.

Funding Source(s)	2014-15	2015-16	2016-17	2017-18	2018-19	Total 5-Year
Capital Projects Fund Balance	3,176,913	-	-	-	-	3,176,913
Capital Improvements Reserve	2,400,000	-	-	-	-	2,400,000
Debt Service Fund	1,000,000	-	-	-	-	1,000,000
General Obligation Bonds	32,161,851	-	-	-	-	32,161,851
Project Total	38,738,764	-	-	-	-	38,738,764

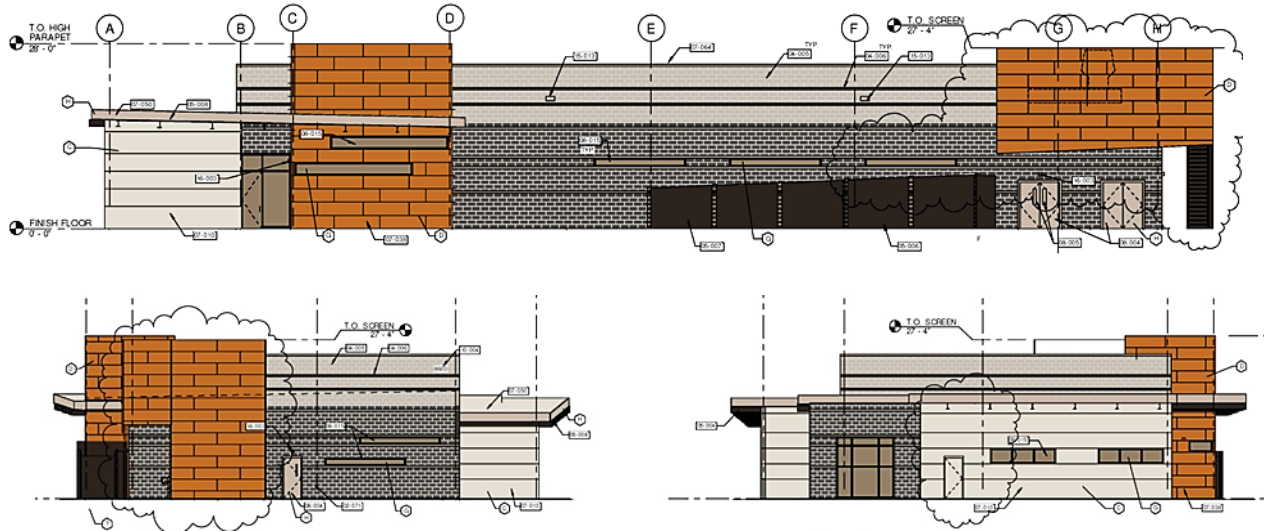
New Operating and Maintenance Budget Impact

The annual operating budget for maintenance of the existing Town Lake Dam will be utilized to maintain the new dam once complete. City engineering staff are currently working to estimate the actual costs required to fully maintain and monitor the new dam. Should the annual operating costs exceed the current budget for the existing dam, a determination will be made about whether or not it will be fiscally necessary to reduce the operating budget in other operating areas or departments in order to accommodate the increase, or whether the increase can be added to the City’s total operating budget.

Environmental Laboratory Facility

Project Number: 3203499
Start Date: Ongoing
Estimated Completion Date: 03/31/2015

Program: Enterprise
Sub Program: Water
Managing Department: Public Works / Water Utilities



Project Description and Benefit

This project involves the design and construction of a new and up-to-date environmental laboratory facility necessary to continue to analyze the quality of Tempe drinking water and wastewater as required under federal and state laws, and to ensure the safest possible water supply. Design plans and specifications are completed and building permits for the project have been obtained.

The existing environmental laboratory facility is undersized, inefficient, outdated, and has been expanded into repurposed areas of the STWTP. This project will allow all water and wastewater quality analyses to be conducted in a dedicated and up-to-date facility. In the last decade emerging regulations governing drinking water and wastewater have created a nearly five-fold increase in the number of required analyses to ensure compliance with Clean Water Act and Safe Drinking Water Act requirements. Without this project, Tempe will increasingly outsource analyses, and will be less available to conduct real-time operational analyses to support treatment processes and practices.

The Environmental Laboratory project will help ensure the City's water quality is tested and treated in compliance with current and future environmental regulation under the U.S. Safe Drinking Water Act. According to the City's 2013 Community Attitude Survey, the City's ability to supply reliable, high quality domestic water to its residents resulted in an 80% resident satisfaction rating which matches the national average.

Funding Source(s)	2014-15	2015-16	2016-17	2017-18	2018-19	Total 5-Year
Water / Wastewater Bonds	7,314,339	-	-	-	-	7,314,339

New Operating and Maintenance Budget Impact

Water utilities staff predict the current annual operating budget for water testing can be reduced once the new laboratory facility is complete. While the exact reduction amount is unknown at this time, water utilities staff estimate new technology and equipment at the new facility will allow the department to save between \$100,000 and \$200,000 annually because more water testing will be performed in house rather than by expensive outside laboratories.

Rio Salado Southbank Path Underpass at 101 & 202 Freeway Interchange

Project Number:	6004319	Program:	Special Purpose
Start Date:	07/01/2011	Sub Program:	Transit
Estimated Completion Date:	06/30/2015	Managing Department:	Public Works / Transit



Project Description and Benefit

The project will construct a shared use path from McClintock drive to the Mesa city limits and includes a portion of pathway underneath Loop 202 at the 202/101 Traffic Interchange. The project is the eastern-most connection of the Tempe Rio Salado and links directly to Mesa along the south bank of the Salt River. The project involves a 10-foot wide concrete path with lighting and safety railings. The project is funded through a federal transportation grant managed through the Arizona Department of Transportation. Majority of the project funding is identified in the ADOT budget.

The project provides a non-motorized link along a regionally significant riparian corridor between 2 major centers, Tempe Marketplace and Mesa Riverview. Additionally, the project will eliminate the main obstruction connecting Tempe to Mesa and will link to the Scottsdale Indian Bend Wash, Rio Salado, Downtown Tempe, Arizona State University, and Metro Light Rail. Finally the project is located in a Tempe Enterprise Zone which supports Tempe City Council's efforts to revitalize areas that serve low income neighborhoods. This path project continues the Tempe Rio Salado pathway from McClintock to the Mesa city limits.

Funding Source(s)	2013-14	2014-15	2015-16	2016-17	2017-18	Total 5-Year
Transit Tax	996,279	-	-	-	-	996,279

New Operating and Maintenance Budget Impact

	2014-15	2015-16	2016-17	2017-18	2018-19
Landscape and Lighting Maintenance	\$ 4,000	\$ -	\$ -	\$ -	\$ -

This project requires an expansion to the scope of the City's existing multiuse path landscape and lighting maintenance contracts which translates into additional recurring operating costs shown above.

Broadway Road Streetscape Project

Project Number:	6003059	Program:	Special Purpose
Start Date:	10/01/2008	Sub Program:	Transit
Estimated Completion Date:	12/01/2015	Managing Department:	Public Works / Transit



Project Description and Benefit

The Broadway Road Pedestrian and Bicycle Improvement Project is approximately 1 mile between Mill Ave and Rural Road. The project consists of pedestrian and bicycle facility improvements along an arterial street fronted by single family residential units. Work to be performed includes striping for bike lanes, the widening of sidewalks, construction of planted medians, construction of a wall, pedestrian safety, street tree plantings, provisions for a mid-block crossing between Sierra Vista and Venture and providing transit and pedestrian amenities.

The proposed project area has a high volume of pedestrian and bicycle travel due to its proximity to ASU and downtown Tempe. Area residents are advocating changing the character of the street to reflect the residential uses on this stretch of Broadway Road, which differs significantly with the rest of corridor. The design of the Broadway Road project was a product of extensive community dialogues. The proposed project is identified in the Tempe Comprehensive Transportation Plan as one of the proposed corridors for improvement.

Funding Source(s)	2014-15	2015-16	2016-17	2017-18	2018-19	Total 5-Year
Transit Tax	1,822,213	-	-	-	-	1,822,213
Federal Grant - CMAQ	3,857,670	-	-	-	-	3,857,670
MAG - Safety Funds	705,000	-	-	-	-	705,000
Project Total	6,384,883	-	-	-	-	6,384,883

New Operating and Maintenance Budget Impact

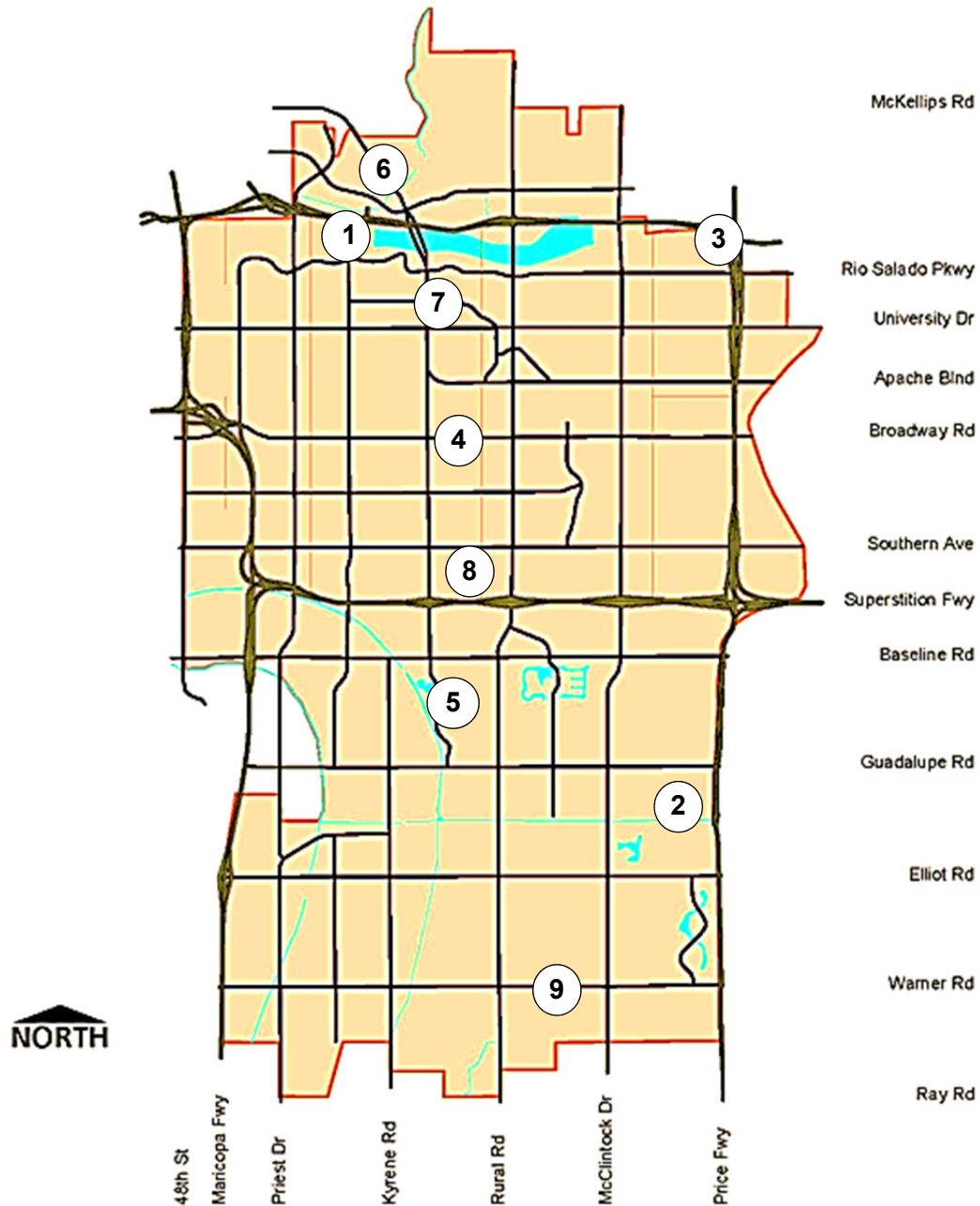
	2014-15	2015-16	2016-17	2017-18	2018-19
Landscape and Lighting Maintenance	\$ 26,500	\$ -	\$ -	\$ -	\$ -

This project requires an expansion to the scope of the City's existing landscape and lighting maintenance contracts which translates into the additional recurring operating costs shown above.

CIP – Significant Recurring Capital Expenditures

The majority of the CIP provides for ongoing or recurring projects that maintain and repair City facilities, water infrastructure, streets, and parks, and projects that gradually replace various capital assets. All 136 projects included in the adopted five year CIP are described under their respective program area in the Fiscal Years 2014-15 through 2018-19 Capital Improvements Program Project Listing and Descriptions section.

Capital Improvements Project Map



Location	Project Description
1.	Town Lake Downstream Dam Replacement
2.	Environmental Laboratory Facility
3.	Tempe Rio Salado Underpass – Under 202 at 101
4.	Broadway Road Streetscape Project
5.	Kiwanis Park Playground Replacement & Renovations
6.	Rolling Hills Golf Course Irrigation System
7.	City Hall Complex Heating and Cooling Repair
8.	Arterial, Collector & Residential Street Asset Preservation
9.	Street Light Upgrade / New Installation

Capital Improvements Program Financing

As shown in the chart below, Tempe's 2014-15 capital program is funded through a combination of bonds and other sources, including pay-as-you-go financing, outside revenues, grants and capital project fund balances.

For fiscal year 2014-15, the City plans to issue \$52 million in new general obligation (G.O.) bonds for projects in the General Purpose and Transportation programs. Over the five-year Capital Improvements Program, the City plans to issue \$125.7 million in bonds for these purposes. Debt service on these bonds will be repaid by revenues from the City's secondary property taxes.

FY 2014-15 Source of Funds		
Funding Source	\$ Millions	% of Total
Water / Wastewater Bonds	\$39.2	26%
General Obligation Bonds	52.3	35%
Outside Revenue	24.4	16%
Capital Project Fund Balances	17.7	12%
Pay-as-you-go	16.8	11%
Total	\$150.4	100%

It is important to note the total projected issuance amount of approximately \$125.7 million of G.O. bonds over the next five years reflects the City's estimated new debt capacity over this period as identified by staff within the parameters of the City's statutory debt limits, the City's property tax levy stabilization policy, and the City's debt management plan.

The City also plans to issue approximately \$39 million of new enterprise bonds in 2014-15 to finance the project costs in this program. Over the five year CIP, The City plans to issue approximately \$124 million in bonds in the Enterprise program. User fee revenue will support the debt service costs on these bonds.

FY 2014-15 capital budget funding sources other than bonds total \$60 million. \$16.8 million in federal grants received for projects in the Transit and Transportation programs make up the bulk of outside revenue budgeted for expenditure in 2014-15. Pay-as-you go funding is concentrated in the Transit and General Purpose programs in the form of \$5.4 million in budget year Transit Tax collections, and \$11.4 million in various City operating fund contributions.

The budgeted use of capital project fund balances to finance projects in 2014-15 largely represents the use of prior year cash balances and City operating fund contributions assigned to projects in the General Purpose program which were approved in 2013-14 and re-appropriated for completion in 2014-15.

The FY 2014-15 capital budget funding sources for each project are described in further detail in the Fiscal Years 2014-15 through 2018-19 Capital Improvements Program Project Listing and Descriptions section.

DEBT MANAGEMENT PLAN

In addition to the management of existing debt and associated reserves, the City also forecasts future debt within a framework of policy priorities and financial capacity. Current and anticipated capital improvement objectives, available operating revenue, tax base fluctuations, and reserve levels are all evaluated on an ongoing basis to estimate the extent to which the City may issue additional tax supported debt.

<i>Fitch</i>	AAA
<i>Moody's</i>	Aa1
<i>Standard & Poor's</i>	AAA

This active debt management ensures the City can readily assess long-term implications for its debt portfolio in order to make proactive decisions about how much new debt capacity is available today. Additionally, in support of the City's property tax stabilization policy, debt management economic models will continue to be updated annually and employed to monitor how fluctuations in annual secondary property tax levy amounts will necessitate the use of the City's debt service reserve and financing methods other than bonds in future years.

Debt management is also a key financial practice contributing to the maintenance of the City's favorable bond ratings. Tempe's current G.O. bond ratings are shown above. These high ratings translate directly into lower interest rates on the City's debt.

Long-Term Debt and Bond Authorization Summary

Remaining General Obligation Bond Authorizations July 1, 2014

	Original Authorization	Prior Issuances	Remaining Authorization
2008 Voter Authorization			
Water / Wastewater	113,300,000	52,025,302	61,274,698
Public Safety	32,010,000	18,565,000	13,445,000
Park Improvements / Community Services	51,800,000	22,105,000	29,695,000
Streets / Transportation / Storm Drains	44,200,000	11,545,000	32,655,000
Subtotal	241,310,000	104,240,302	137,069,698
2012 Voter Authorization			
Public Safety	6,400,000	-	6,400,000
Park Improvements / Community Services	10,500,000	-	10,500,000
Municipal Infrastructure Preservation	12,900,000	5,215,000	7,685,000
Subtotal	29,800,000	5,215,000	24,585,000
TOTAL	\$ 271,110,000	\$ 109,455,302	\$ 161,654,698

Outstanding Long-Term Debt Summary

	July 1	2011	2012	2013	2014
General Obligation Bonds					
Water / Wastewater		287,621,092	270,715,646	253,760,903	236,046,554
Public Safety		60,875,000	59,625,000	60,260,000	59,230,000
Park Improvements		34,515,000	34,170,000	34,105,000	33,920,000
Library / Museum		11,410,000	10,940,000	10,465,000	9,985,000
Streets / Transportation / Storm Drains		59,880,000	57,465,000	57,130,000	54,940,000
Municipal Infrastructure Preservation		-	-	2,275,000	5,130,000
Total G.O. Debt Outstanding		454,301,092	432,915,646	417,995,903	399,251,554
Excise Tax Bonds					
Water / Wastewater		46,954,000	53,744,000	79,034,000	76,109,000
General Governmental		35,676,000	34,347,900	33,352,900	32,297,900
Performing Arts		36,295,000	31,820,000	27,280,000	22,530,000
Transit		129,905,000	126,955,000	68,345,000	66,645,000
Rio Salado		27,435,000	25,400,000	23,545,000	21,680,000
Cemetery Enterprise		1,785,000	1,658,100	1,558,100	1,453,100
Total Excise Tax Debt Outstanding		278,050,000	273,925,000	233,115,000	220,715,000
Special Assessment Bonds ⁽¹⁾		29,875,000	27,815,000	25,675,000	23,930,000
Section 108 Guaranteed Loan ⁽²⁾		5,883,000	5,572,000	5,247,000	4,907,000
Total Outstanding Long-Term Debt		\$768,109,092	\$740,227,646	\$682,032,903	\$648,803,554

(1) As trustee for improvement districts within the City, the City is responsible for collection of assessments levied against the owners of property within the improvement districts and for disbursement of these amounts for retirement of the respective bonds issued to finance the improvements. Improvement bonds are collateralized by properties within the districts. In the event of default by the property owner, the City is contingently liable on special assessment bonds to the extent proceeds from assessments are insufficient to retire outstanding bonds.

(2) In July 2004, the City entered into a Section 108 guaranteed loan agreement with the U.S. Department of Housing and Urban Development (HUD) for funding of \$7,000,000 for on-site environmental remediation of the University / Hayden Butte Redevelopment Area 5 (Rio Salado Marketplace Redevelopment). The City has pledged its Community Development Block Grants as security for HUD's guaranteed loan. The City was awarded a \$1,000,000 HUD Brownfield Economic Development Initiative grant to be used to pay interest on the HUD Section 108 loan until such time the development generates sufficient tax revenue to cover the debt service of the development.

Fiscal Year 2014-15 Debt Service Appropriations

Program	Principal	Interest	Fiscal Agent Fees	Total
Debt Service Fund	29,232,105	8,359,781	400,000	37,991,886
Performing Arts Fund	4,975,000	944,026	7,500	5,926,526
Transit Fund	1,745,000	2,910,688	7,500	4,663,188
Water / Wastewater Fund	21,614,273	13,894,652	310,000	35,818,925
Special Assessments Fund	1,745,000	1,214,850	-	2,959,850
Total	\$ 59,311,378	\$ 27,323,997	\$ 725,000	\$ 87,360,375

Legal Bonded Debt Limits

Under Article 9, Section 8 of the Arizona State Constitution, cities may issue general obligation bonds for purposes of water, wastewater, artificial light, open space preserves, parks, playgrounds and recreational facilities, public safety, law enforcement, fire and emergency services facilities and streets and transportation facilities up to an amount not exceeding 20% of secondary assessed property value within the City.

Cities may also issue general obligation bonds for any purpose up to an amount not exceeding 6% of the secondary assessed value. All bonds issued pursuant to Article 9, Section 8 are subject to authorization by a majority vote at a city bond election.

As a result of year over year declines in property values which began during the great recession (displayed on the following page), the City exceeded its 20% debt limit when final annual property valuations were provided from Maricopa County during fiscal year 2011-12. This limit was exceeded because property valuations fell far enough that the City's amount of already outstanding general obligation debt instantaneously grew to be more than 20% of secondary assessed property value within the City.

Between fiscal year 2011-12 and 2013-14 taxable secondary assessed property values within the City fell approximately 46%. As is shown below, this decline in value continues to cause the City's outstanding debt issued under the 20% limit to exceed 20% of the City's secondary assessed property value. Notably, taxable secondary assessed property values within the City increased in 2014-15 for the first time in five years.

The City currently estimates the combination of paying down the outstanding principal balance of debt issued against the 20% limit, and rising property values through a recovering economy, will produce a positive debt to value ratio by fiscal year 2015-16 or 2016-17. Until such time, the City may / will not incur additional debt against the 20% debt limit. While the City may continue to issue debt within the 6% debt limit; doing so must be done with extreme vigilance depending on actual year to year property valuation activity and economic projections.

FY 2014-15 General Obligation Bonded Debt Limits July 1, 2014

FY 2014-15	6%	20%
Projected G.O. Debt Limit ⁽¹⁾	\$97,663,254	\$325,544,180
Outstanding G.O. Bonded Debt-Previously Issued	(37,530,000)	(361,721,554)
Debt Margin Available	\$60,133,254	(\$36,177,374)

⁽¹⁾ The FY 2014-15 Bond Limit is based on an estimated secondary assessed value of \$1,627,720,901 compared to the FY 2012-13 secondary assessed value of \$1,513,299,272 .

Capital Budget, Debt Service and Property Tax Rate Ten Year Historical Trends

Fiscal Year	Budgeted Capital Improvements Program	Outstanding Principal	Debt Service Requirements P & I	Net Secondary Assessed Value	% Change in Secondary Assessed Valuation	Property Tax Rate (\$)		
						Primary	Secondary	Total
2004-05	177,118,222	280,525,000	27,696,707	1,768,877,385	4.8	.53	.82	1.35
2005-06	189,971,703	362,225,000	35,620,916	1,904,426,188	7.7	.52	.88	1.40
2006-07	196,728,491	452,490,000	44,105,855	2,006,703,332	5.4	.52	.88	1.40
2007-08	212,706,469	581,595,000	52,988,091	2,401,898,465	19.7	.51	.89	1.40
2008-09	168,033,325	651,395,000	59,795,499	2,656,948,194	10.6	.51	.89	1.40
2009-10	96,310,568	700,245,000	68,975,861	2,767,488,865	4.2	.49	.91	1.40
2010-11	48,264,755	765,568,545	69,753,500	2,512,995,468	(9.2)	.52	.88	1.40
2011-12	49,337,804	768,109,092	66,378,628	1,957,328,610	(22.1)	.66	1.13	1.79
2012-13	124,812,526	740,227,646	120,964,519	1,697,237,040	(13.3)	.79	1.36	2.14
2013-14	119,527,409	682,032,903	74,555,343	1,513,299,272	(10.8)	.91	1.57	2.48
2014-15	150,438,466	648,803,554	86,635,375	1,627,720,901	7.6	.92	1.51	2.44

The CIP budget reached a historical peak in FY 2007-08 primarily due to increased spending in the Transit Program to fund the City's portion of design and construction of the metropolitan area light rail transit system. The FY 2008-09 CIP included the City's final contribution to light rail funding as the project was completed in December 2008.

As the great recession began to produce rapidly declining property values, the City's capacity to issue general obligation (G.O.) debt became significantly compromised not only because outstanding debt as a percentage of property valuations threatened to cause the City to exceed its legal debt limits, but also because secondary property tax levies were cut in half while maintaining a stable property tax rate. Since the secondary property tax may only legally be used to repay G.O. debt, this circumstance made it very risky to take on new debt service commitments, and potentially jeopardized the City's ability to repay its outstanding G.O. debt service; without draining the City's debt service reserve, or increasing the property tax rate.

As shown above, this resulted in a dramatically scaled back CIP in fiscal years 2010-11 and 2011-12. In those years, the water / wastewater capital programs accounted for the bulk of the CIP since debt issued to fund those programs is repaid strictly from water and sewer system user fee revenue.

In response to the declining property values, the City adopted a property tax stabilization policy (provided below) in FY 2010-11 which established parameters for the amount of property taxes which may be collected each year. The policy allows the City to collect a predictable amount of property tax while property values fluctuate, by essentially allowing the property tax rate to "float": shown above starting in fiscal year 2011-12. This policy helped to effectively put the City back on track toward reliable and stable capital expenditure planning.

Outstanding Principal includes all forms of City debt, including general obligation, excise tax revenue, and enterprise revenue supported debt. The large increase in total budgeted debt service in FY 2012-13 provided for the retirement of \$54 million of outstanding Transit Tax debt with the receipt of federal reimbursements associated with the City's portion of the metropolitan area light rail transit system.

Capital Budget, Debt and Property Tax Levy Policy Statements

Capital Budget Policy

- Estimated costs, potential revenue and funding sources shall be identified prior to any project being submitted for Council approval. A department which anticipates a capital project exceeding its adopted budget shall submit a plan to Council addressing the issue for its prior approval.
- A five-year capital improvements program, as required by City Charter, will be developed and updated annually including anticipated funding sources. In addition, a prior year capital project status report shall be presented to the Council for information purposes when the capital improvement budget is considered.

- The annual operating budget will provide for the adequate maintenance and the orderly replacement of the capital plant and equipment from current revenue where possible.
- Capital improvement operating budget impacts will be coordinated with the development of the Operating Budget. Future operating, maintenance, and replacement costs will be forecast as part of the City's annual long-range financial capacity study.
- The City may provide for internal, pay-as-you go financing for its capital improvement program. Funding may come from fund balance reserves or any other acceptable means of funding.

Debt Policy

- Debt will only be used to finance long term capital improvements and not be used to finance recurring operating expenses.
- In accordance with state law, the total value of General Obligation bonds issued for the purposes of water, wastewater, artificial light, open space preserves, parks, playgrounds, and recreational facilities, public safety, law enforcement, fire and emergency services facilities, and streets and transportation facilities cannot exceed 20% of assessed valuation. The total value of General Obligation bonds issued for all other purposes other than those listed above cannot exceed 6% of assessed valuation.
- Debt term should match the useful life of the capital project funded.
- Debt service schedules will be based upon level annual principal and interest payments.
- Overlapping debt issuances shall be included in the City's financial reports.
- Authorized debt shall be limited as follows unless authorization is obtained from the City council to exceed these limits
 - General obligation bonds shall follow the guidelines established in the Debt Management Plan
 - Excise tax bonds shall maintain annual revenue coverage of at least 3 times maximum annual debt service
 - Improvement District bonds shall not exceed 5% of the City's secondary assessed valuation
 - Short-term borrowing or lease / purchase contracts must be budgeted within the Operating Budget
- Benchmark ratios of per capita debt, debt service to operating revenue, and outstanding debt as a percent of full cash value will be updated regularly and incorporated into the Debt Management Plan.

Property Tax Levy Policy

- 1) The total annual secondary tax levy shall only be used to make debt service payments on bonds issued to fund capital projects approved by the City Council in the CIP and shall not exceed an amount calculated as follows:
 - a. For existing property, which is defined as property subject to property tax in the prior year, establish a maximum total property tax levy equal to the previous year's total primary and secondary tax levy, adjusted by the Western States Consumer Price Index (CPI) for the last completed calendar year, not to exceed a 3.3% increase in any year.
 - b. The primary levy on existing property shall be established first, within the limits provided in paragraph 1)a, and within limits provided in state statute. After establishing the primary levy on existing property, the secondary levy on existing property shall be established at a level that, when combined with the primary levy on existing property, does not increase the total levy on existing property by more than CPI, and in no case by more than 3.3% of the total city property tax levy in the prior year.
 - c. For newly-taxable property, collect a levy by applying, to the net assessed values of new properties, the same primary and secondary tax rates used to establish the levies on existing taxable property in paragraph 1)b.
- 2) Secondary property tax levies shall be deposited into the Debt Service Fund, from which general purpose bonded debt payments are made. The Debt Service Fund shall be maintained in accordance with generally accepted accounting principles and shall have a fund balance between 4% and 8% of outstanding general purpose debt at the end of each fiscal year.
- 3) Projections of revenues and debt service payments shall be used to create an annual long-range forecast, of at least 20 years, for the Debt Service Fund. Projected debt service payments associated with the approved CIP shall not cause the projected Debt Service Fund balance to drop below 4% in any year of the forecast, applying levy projections that comply with this policy for each year of the forecast.

Fiscal Years 2014-15 through 2018-19

Capital Improvements Program

Project Listing and Descriptions



Marina Heights Future

Above is an architectural rendering of the Marina Heights development currently under construction just south of downtown Tempe on the south bank of Tempe Town Lake. The property will be the largest office development in state history at 2 million square feet.

Enterprise Program

Water, Wastewater and Golf projects total \$43.8 million in FY 2014-15 and account for 29% of the total FY 2014-15 appropriated CIP budget



The Enterprise component of the Capital Improvements Program consists of the Water, Wastewater and Golf programs. Combined, they constitute \$43.8 million of the \$150.4 million Capital Improvements Program for FY 2014-15. The City's Capital Budget for the Water and Wastewater programs is driven primarily by planned infrastructure maintenance and replacement projects that support the City's long term water and wastewater distribution, collection, and treatment capabilities. The primary funding source for these projects in FY 2014-15 is water and wastewater revenue supported bonds. These bonds are repaid by user charges for service delivery in both programs.

The Golf program consists of a single project to renovate and convert the City's Rolling Hills golf course irrigation system from using ground water to reclaimed water. The funding source for the project is a long term loan from the City's Water / Waster Fund.

Water Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
ARC Flash Hazard Analysis: 3201202	Capital Projects Fund Balance	75,185	-	75,185	-	-	50,000	50,000	175,185
Automated Meter Reading Systems: 3205869	Capital Projects Fund Balance	105,311	-	105,311	-	-	-	-	105,311
	Water / Wastewater Bonds	-	400,000	400,000	500,000	500,000	500,000	500,000	2,400,000
	Project Total	105,311	400,000	505,311	500,000	500,000	500,000	500,000	2,505,311
CAP Water Lease - WMAT Quantification Settlement Agreement: NA	Water / Wastewater Fund	-	-	-	3,117,758	826,205	826,205	826,205	5,596,373
Carl Hayden Campus for Sustainability: 3203259	Capital Projects Fund Balance	40,000	-	40,000	-	-	-	-	40,000
Environmental Laboratory Facility: 3203499	Water / Wastewater Bonds	6,936,639	377,700	7,314,339	-	-	-	-	7,314,339
Filter Rehabilitation at Water Treatment Plants: 3205889	Capital Projects Fund Balance	85,000	-	85,000	-	-	-	-	85,000
	Water / Wastewater Bonds	-	480,000	480,000	320,000	-	-	-	800,000
	Project Total	85,000	480,000	565,000	320,000	-	-	-	885,000
Flood Irrigation Infrastructure Improvements: 3205899	Water / Wastewater Bonds	100,000	-	100,000	100,000	100,000	100,000	100,000	500,000
JGMWTP Minor Improvements: 3207149	Water / Wastewater Bonds	-	377,000	377,000	-	-	-	-	377,000
JGMWTP Solar Project: NA	Water / Wastewater Fund	-	-	-	-	-	-	-	-
Meter Replacement Program: 3209319	Water / Wastewater Bonds	455,587	750,000	1,205,587	900,000	900,000	900,000	900,000	4,805,587
SCADA Master Plan Implementation: 3204409	Water / Wastewater Bonds	744,262	1,199,000	1,943,262	251,000	251,000	465,000	-	2,910,262
STWTP Main Power Building: 3205909	Water / Wastewater Bonds	97,500	1,332,500	1,430,000	-	-	-	-	1,430,000
STWTP Minor Improvements: 3205919	Water / Wastewater Bonds	338,000	762,000	1,100,000	-	-	-	-	1,100,000
Water and Wastewater Facilities Security Improvements: 3201029	Water / Wastewater Bonds	500,000	-	500,000	-	-	-	-	500,000
Water and Wastewater Infrastructure Master Plan Update: 3207159	Capital Projects Fund Balance	-	1,050,000	1,050,000	-	-	-	-	1,050,000

2014-15 CIP Projects - Water Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriation Request	2014-15 Total Requested Appropriation	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Water Aqueduct Rehabilitation at JGMWTP: 3204959	Water / Wastewater Bonds	355,921	220,000	575,921	-	-	-	-	575,921
Water Distribution System Metering Stations: 3201551	Water / Wastewater Bonds	235,000	-	235,000	-	-	-	-	235,000
Water System - Upgrades, Repairs, and Replacement: 3299989	Water / Wastewater Bonds	758,262	741,738	1,500,000	1,499,000	1,499,000	1,499,000	1,499,000	7,496,000
Water System Rehabilitation or Replacement of Aging Infrastructure: 3204969	Water / Wastewater Bonds	3,232,622	8,443,000	11,675,622	5,760,000	4,818,000	3,877,000	3,877,000	30,007,622
Water Utility Buildings Asset Management: 3207169	Water / Wastewater Bonds	-	317,821	317,821	277,180	279,399	382,333	353,662	1,610,395
Wells - New Production: 3200019	Water / Wastewater Bonds	1,749,352	-	1,749,352	1,850,000	-	2,000,000	-	5,599,352
Water Program Total		15,808,641	16,450,759	32,259,400	14,574,938	9,173,604	10,599,538	8,105,867	74,713,347

ARC Flash Hazard Analysis



Project Description

This project provides engineering services for evaluations and labeling of electrical equipment located at water facilities. Arc flash studies were recently completed at the each of the water treatment plants. Study updates for wells, pump stations, and other field sites are currently ongoing and scheduled to be completed in FY 14/15. Arc flash studies will be updated on a rolling basis every five years in the future.

The National Fire Protection Association requires that arc-flash hazard analysis be completed and reviewed at least every five years. This project is to help ensure safety in the workplace and compliance with regulations. Arc Flash Hazard Analysis involves completing engineering calculations on potential energy discharges and safe approach boundaries and the development of appropriate labeling on electrical equipment to provide for clear communication to employees.

2014-15 Source of Funds

Capital Projects Fund Balance	\$75,185
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$75,185	\$0	\$0	\$50,000	\$50,000	\$175,185

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$75,185
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$75,185
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Project Number: 3201202

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Automated Meter Reading Systems



Project Description

The purpose of this project is to provide an automated meter reading solution for Tempe that will cost effectively maximize the read success rate and billing accuracy, optimize water-use efficiency, improve communication and responsiveness to the rate payers/customers, and improve employee safety. Specifically, some of the benefits to be derived with implementation include: (1) cost savings through the gradual reduction in personnel and vehicles currently utilized in the manual reading of water meters, (2) improved billing accuracy, (3) enhanced customer service through improved leak detection and troubleshooting, (4) reduced carbon footprint.

A pilot study was approved for fiscal year 2013/14 for the purpose of exploring the available technologies that would meet the needs of the city. The six month study will conclude by December 31st, 2013 and will provide important information regarding the nature, extent and timing of the automated meter reading system for the city. The implementation of this system will be closely coordinated with the timing of meter replacements included in Project #3209319 (Meter Replacement). We anticipate and approximate 5 to 7year phase-in of the system city-wide.

2014-15 Source of Funds

Capital Projects Fund Balance	\$105,311
Water / Wastewater Bonds	\$400,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$505,311	\$500,000	\$500,000	\$500,000	\$500,000	\$2,505,311

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$505,311

Total	\$505,311
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Project Number: 3205869

Estimated Start Date: 07/01/2015

Estimated Completion Date: 06/30/2020

CAP Water Lease - WMAT Quantification Settlement Agreement



Project Description

Resolution 2013.06 was adopted by Tempe City Council on 1/10/13. This resolution adopts the amended and restated White Mountain Apache Tribe (WMAT) Quantification Settlement Agreement (QSA) and also authorizes the execution of a long-term 100 year lease of WMAT CAP water for Tempe (2,481 acre-feet/year). The enforceability date of the agreement is contingent upon approval by the Arizona Superior Court for Maricopa County in Gila River General Stream Adjudication, but is anticipated to be late 2015 to early 2016. The terms of the water lease agreement provide payment of 50% of the total amount of the 100-year lease is due 30 days after the enforceability date, with four annual payments of 1/8 of the total amount to follow until paid in full. Total lease cost is estimated at \$6,235,515. Initial payment of approximately \$3,117,758 due FY 15/16.

The WMAT QSA and the Congressional Act resolve long-standing water disputes and provides greater water supply certainty for Tempe and all parties in the future. The WMAT CAP Water Lease Agreement provides Tempe and the other leasing cities with the opportunity to further diversify and add to our water resources portfolio for the future through the lease of CAP water under a long-term contract.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 01/01/2016

Estimated Completion Date: 01/01/2021

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$3,117,758	\$826,205	\$826,205	\$826,205	\$5,596,373

Carl Hayden Campus for Sustainability



Project Description

In lieu of a more costly and less favorable pipeline route, this project provides funding for park restoration, mitigation of areas disturbed by construction, environmental enhancements, and improvements tied to the cost savings realized by routing the JGMWTP 60" water transmission main project through the Papago Park Green Line riparian area, adjacent portions of Papago Park and the Arizona Historical Society Museum property. Funds have been used at the Tempe Xeriscape Demonstration Garden at Tempe Women's Club Park, the Eisendrath House, the Justice Sandra Day O'Connor House Center for Civic Discourse, the AHS Museum portion of the Green Line area, and Hallman Park.

2014-15 Source of Funds

Capital Projects Fund Balance \$40,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$40,000
Total	\$40,000

Project Number: 3203259

Estimated Start Date: Ongoing

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$40,000	\$0	\$0	\$0	\$0	\$40,000

Environmental Laboratory Facility



Project Description

This project involves the design and construction of a new and up-to-date environmental laboratory facility necessary to continue to analyze the quality of Tempe drinking water and wastewater as required under federal and state laws, and to ensure the safest possible water supply. Design plans and specifications are completed and building permits for the project have been obtained.

The existing environmental laboratory facility is undersized, inefficient, outdated, and has been expanded into repurposed areas of the STWTP. This project will allow all water and wastewater quality analyses to be conducted in a dedicated and up-to-date facility. In the last decade emerging regulations governing drinking water and wastewater have created a nearly five-fold increase in the number of required analyses to ensure compliance with Clean Water Act and Safe Drinking Water Act requirements. Without this project, Tempe will increasingly outsource analyses, and will be less available to conduct real-time operational analyses to support treatment processes and practices.

2014-15 Source of Funds

Water / Wastewater Bonds	\$7,314,339
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$339,200
Design and Engineering	\$265,000
Survey / Staking	\$0
Construction Management	\$318,000
Furnishings / Equipment	\$0
Construction / Improvement	\$5,724,000
Geotech / Material Testing	\$26,500
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$95,000
Other Project Costs	\$546,639
Total	\$7,314,339

Project Number: 3203499

Estimated Start Date: Ongoing

Estimated Completion Date: 03/31/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$7,314,339	\$0	\$0	\$0	\$0	\$7,314,339

Filter Rehabilitation at Water Treatment Plants



Project Description

This project will include inspections and evaluations of the filter media, filter structures, underdrain system and piping. An engineering evaluation of the filters will be conducted and opportunities to optimize performance will be considered and implemented as appropriate. This project was recommended as part of a previous engineering study to ensure operational reliability through proper maintenance and long term asset management of critical plant infrastructure.

2014-15 Source of Funds

Capital Projects Fund Balance	\$85,000
Water / Wastewater Bonds	\$480,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$9,000
Design and Engineering	\$25,000
Survey / Staking	\$4,000
Construction Management	\$25,000
Furnishings / Equipment	\$0
Construction / Improvement	\$485,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$12,000
Total	\$565,000

Project Number: 3205889

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2016

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$565,000	\$320,000	\$0	\$0	\$0	\$885,000

Flood Irrigation Infrastructure Improvements



Project Description

The City operates approximately 37 miles of irrigation pipelines to serve its irrigation customers. This project continues a program to replace old pipelines. This is an ongoing CIP used to repair irrigation lines and replace lines as funding becomes available. These pipelines are primarily located north of the US-60 in the older sections of the City and are non-reinforced concrete pipe. Over time, as the high frequency break pipelines have been replaced, this project will be used to continue to replace aging irrigation lines that have reached the end of their useful life. Annual funding of \$100,000 will line or replace approximately 480-600 feet of irrigation pipeline.

This project has been identified as part of a long-term asset management program to ensure reliable operations. Based on CCTV inspection previously performed, the following areas have been identified as high-priority areas that require replacement or relining: Ash Ave - 10th to 13th Streets; 14th and 15th Streets - McAllister to Mill Ave; Wilson Street - University to 10th Street.

2014-15 Source of Funds

Water / Wastewater Bonds	\$100,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$100,000

Total	\$100,000
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Project Number: 3205899

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000

JGMWTP Minor Improvements



Project Description

The project consists of 4160V Generator Switch replacement, improvements to the existing lime feed pumping system, replacement of the existing redwood baffles at the presedimentation basins, reconfiguration of valves on the solids handling belt presses, and replacement of the original 50-year old secondary sedimentation basin sludge blow down telescoping valves with newer technology plug valves.

These projects have been identified during routine operations as requiring replacement/rehabilitation to ensure reliable operations. The 4160V generator switch is a critical piece of equipment and is in need of replacement - if it fails JGMWTP will lose most of its back up power and the use of critical portions of the plant. The lime feed pumping system is in need of new pumps and piping system due to operational challenges. The redwood baffles at the presedimentation basins are in need of replacement in order to avoid potential damage to the downstream sludge collection system. The solids handling belt press feed valves will be reconfigured so that they are less susceptible to clogging and leaking. The secondary sedimentation basin sludge telescoping valves are leaking and have recently begun to fail - these will be replaced with newer technology plug valves to increase efficiency and reduce water loss.

2014-15 Source of Funds

Water / Wastewater Bonds	\$377,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$3,000
Land Acquisition	\$0
Permit Fees	\$11,000
Design and Engineering	\$36,000
Survey / Staking	\$3,000
Construction Management	\$21,000
Furnishings / Equipment	\$0
Construction / Improvement	\$300,000
Geotech / Material Testing	\$3,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$377,000
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Project Number: 3207149

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$377,000	\$0	\$0	\$0	\$0	\$377,000

JGMWTP Solar Project



Project Description

This project would install photovoltaic solar panels on the JGM reservoir roof structures and other locations where economically and environmentally feasible to reduce energy costs at JGM through generation of renewable solar energy.

Through a power purchase agreement, the city will have little or no upfront costs for the solar system which will be owned and maintained by a third party. The city would in turn agree to purchase power at a fixed rate over 20 years, lower than the current rate. This project will save rate payers money, save the city utility costs and reduce carbon emissions each year. Project cost is still to be determined, however, the project would not move forward unless the analysis shows a positive financial impact for the City.

2014-15 Source of Funds

Water / Wastewater Fund \$0

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	
Construction / Improvement	
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$0	\$0	\$0	\$0	\$0

Meter Replacement Program



Project Description

This project provides for the replacement of revenue generating water meters that have been in service past their useful life. As they age, meters tend to under-report flows. By improving read accuracy, this project will help decrease unaccounted for water, ensure fair and equitable billing, and increase water enterprise revenue.

Industry studies confirm that water meters of all sizes decrease their read accuracy over time, particularly at low volume flows. This results in inaccurate data regarding consumption, and unfair and inequitable billing. The water industry recommends regular testing of water meters and, based on test results, cost-benefit analyses, and manufacturer warranty periods, replacement approximately every 10-12 years. The city currently maintains 43,000 water meters up to 10" in size (approximately 38,000 meters between 5/8" and 2"). This project will develop an appropriate replacement cycle for each meter size and class, and the identified funding will allow for replacement of approximately 1/12 of the city's meter inventory (approximately 3,500 meters) per year.

2014-15 Source of Funds

Water / Wastewater Bonds \$1,205,587

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$1,205,587
Total	\$1,205,587

Project Number: 3209319

Estimated Start Date: On-going

Estimated Completion Date: On-going

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,205,587	\$900,000	\$900,000	\$900,000	\$900,000	\$4,805,587

SCADA Master Plan Implementation



Project Description

The Supervisory Control and Data Acquisition (SCADA) Master Plan project has involved the inventory and evaluation of the existing system, implementation of equipment and software, the development of SCADA design standards, and recommendations for upgrades at the JGMWTP. The next phase of the project will involve the implementation of the recommended upgrades including: fiber optic communication for the STWTP & Utility Services campus, updating and standardizing computer hardware and software at the JGMWTP, and standardizing hardware and software at all Water Utilities field sites (Wells, Lift Stations, and Sewer Metering Stations), culminating in a global software system. FY 17/18 funding is to evaluate and replace obsolete equipment and update software.

SCADA systems allow remote monitoring and operation of critical water treatment, pumping, distribution, and sewage collection equipment. The use of SCADA alerts staff to issues such as main breaks, pump breakdowns, or other equipment status in real time impacting overall operational efficiency. The primary objectives of the Master Plan are to review the current SCADA systems' functionality, develop a roadmap for increasing uniformity throughout the system, and identify long-term operating costs.

2014-15 Source of Funds

Water / Wastewater Bonds	\$1,943,262
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Estimated 2014-15 Project Costs

Legal / Administration	\$10,000
Land Acquisition	\$0
Permit Fees	\$34,000
Design and Engineering	\$680,000
Survey / Staking	\$20,000
Construction Management	\$45,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,144,262
Geotech / Material Testing	\$10,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$1,943,262
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Project Number: 3204409

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,943,262	\$251,000	\$251,000	\$465,000	\$0	\$2,910,262

STWTP Main Power Building



Project Description

This project is to evaluate site power requirements and equipment alternatives. Replace existing main power switch gear equipment and enclosure.

This project was identified during the last major renovation of the STWTP. Switches in the main power building are 38+ years old and have exceeded their design life. To ensure reliable operations, the switch gear must be replaced. The technology is outdated, unreliable, and does not meet current specifications or standards. Replacement equipment will use a vacuum technology requiring minimal maintenance and an endurance rating of 10,000 operations.

2014-15 Source of Funds

Water / Wastewater Bonds	\$1,430,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$12,500
Land Acquisition	\$0
Permit Fees	\$38,000
Design and Engineering	\$69,000
Survey / Staking	\$12,500
Construction Management	\$85,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,200,000
Geotech / Material Testing	\$13,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$1,430,000
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Project Number: 3205909

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,430,000	\$0	\$0	\$0	\$0	\$1,430,000

STWTP Minor Improvements



Project Description

The project consists of on-site sewage collection and pumping system evaluation and modifications, Admin Building HVAC modifications, disinfection building roof reconstruction, and filter gallery improvements for regulatory compliance meters. A drying bed will also be installed on-site to assist the utilities crews with drying out spoils from water main breaks.

These modifications and improvements are necessary as a result of issues identified during routine operations. The sewage project is to correct high level alarms in the wet well. The HVAC modifications are to tie multiple expansion projects together and improve ventilation in the basement of the administration building. The disinfection roof project needs to correctly relocate a roof drain away from electrical gear. The filter gallery improvements will assist in compliance requirements outlined by the Arizona Department of Health Services. The drying bed for the Utilities Services Crews will allow spoils from main breaks to dry before being hauled to the landfill, saving on trucking costs. The estimated costs are based on past projects and are preliminary.

2014-15 Source of Funds

Water / Wastewater Bonds	\$1,100,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$23,500
Design and Engineering	\$102,500
Survey / Staking	\$8,000
Construction Management	\$38,000
Furnishings / Equipment	\$0
Construction / Improvement	\$836,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$50,000
Other Project Costs	\$32,000

Total	\$1,100,000
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Project Number: 3205919

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,100,000	\$0	\$0	\$0	\$0	\$1,100,000

Water and Wastewater Facilities Security Improvements



Project Description

This project addresses security needs identified by the vulnerability assessment performed by the Department of Homeland Security. Phase I of the project included fencing at the three plant locations. This is Phase II and addresses the remainder of the sites including wells, booster stations, metering stations, and above-ground water storage tanks.

The Department of Homeland Security identified requirements for security at critical infrastructure sites. The completion of this project will enhance our reliability and ability to adequately maintain our assets by delaying, deterring, and detecting unauthorized persons entering secure facilities.

2014-15 Source of Funds

Water / Wastewater Bonds	\$500,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$4,000
Land Acquisition	\$0
Permit Fees	\$14,000
Design and Engineering	\$50,000
Survey / Staking	\$4,000
Construction Management	\$4,000
Furnishings / Equipment	\$0
Construction / Improvement	\$420,000
Geotech / Material Testing	\$4,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$500,000
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Project Number: 3201029

Estimated Start Date: Ongoing

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$500,000	\$0	\$0	\$0	\$0	\$500,000

Water and Wastewater Infrastructure Master Plan Update



Project Description

It has been 10+ years since the Water Infrastructure Master Plan was updated and 7+ years since the Wastewater Infrastructure Master Plan was completed. These plans were extremely useful for development growth during that time frame but are now dated and inadequate for addressing infrastructure needs into the future. This project will include an evaluation of the existing water and sewer computer hydraulic models and update the infrastructure plans to include known development projects and planning incorporated into the General Plan 2040.

This project provides funding to facilitate updates to our Water and Wastewater Infrastructure Master Plans and computer hydraulic models. These updates are critical to ensure the infrastructure needs of existing and future residential and business customers are met well into the future.

2014-15 Source of Funds

Capital Projects Fund Balance	\$1,050,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$10,000
Land Acquisition	\$0
Permit Fees	\$30,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$1,010,000
Total	\$1,050,000

Project Number: 3207159

Estimated Start Date: 07/01/2014

Estimated Completion Date: 12/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,050,000	\$0	\$0	\$0	\$0	\$1,050,000

Water Aqueduct Rehabilitation at JGMWTP



Project Description

The purpose of this project is to complete final rehabilitation work and coating of the aqueduct channel at JGMWTP. Progress to date includes completion of structural repairs to flume support columns and to flow channels. Work included in this project will be completed in two phases - during SRP's annual dry-up between January and April of 2014 and 2015.

The water aqueduct at JGMWTP carries raw water flows from the SRP canal to the plant for treatment. SRP schedules an annual dry-up between January and April for maintenance. Rehabilitation of concrete and seams will occur during SRP's 2014 dry-up. Concrete coating will occur the following year. This project is part of a long-term asset management program to ensure reliable operations. The rehabilitation of the aqueduct is required to stop the existing channels from leaking and to repair structural defects which have developed in this 50 year-old structure.

2014-15 Source of Funds

Water / Wastewater Bonds	\$575,921
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Estimated 2014-15 Project Costs

Legal / Administration	\$4,000
Land Acquisition	\$0
Permit Fees	\$12,000
Design and Engineering	\$82,000
Survey / Staking	\$4,000
Construction Management	\$35,000
Furnishings / Equipment	\$0
Construction / Improvement	\$420,000
Geotech / Material Testing	\$4,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$14,921
Total	\$575,921

Project Number: 3204959

Estimated Start Date: Ongoing

Estimated Completion Date: 4/31/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$575,921	\$0	\$0	\$0	\$0	\$575,921

Water Distribution System Metering Stations



Project Description

This project includes design and construction of the final of five flow and pressure monitoring stations strategically placed throughout the water distribution system. Four of these stations have been constructed - this project will complete the fifth and last station.

Monitoring water flow and pressure once it leaves the water treatment plants is challenging. Regulatory requirements regarding disinfection residual and by-products require increased collection of data for system monitoring. The addition of these stations will provide continuous, real-time data that can be used in conjunction with existing computer models to more accurately measure water pressure and flow, and monitor changes in water quality throughout the system thereby ensuring compliance with drinking water regulations.

2014-15 Source of Funds

Water / Wastewater Bonds	\$235,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$235,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$235,000
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Project Number: 3201551

Estimated Start Date: Ongoing

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$235,000	\$0	\$0	\$0	\$0	\$235,000

Water System - Upgrades, Repairs, and Replacement



Project Description

This project provides for upgrades, repairs, or replacement of existing water system infrastructure that fails unexpectedly and has not been included in a planned rehabilitation program.

Tempe's water distribution system consists of several well sites, booster stations, and storage tanks, thousands of valves, are over 800 miles of waterline. This entire infrastructure is of varying age and material - nearly 75% of the city's waterlines are cast iron or asbestos concrete of increasing age and are prone to failure. Unexpected failures occur every year and, based on historical spending on emergency work, approximately \$1.5M per year has been budgeted.

2014-15 Source of Funds

Water / Wastewater Bonds	\$1,500,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$5,000
Design and Engineering	\$18,000
Survey / Staking	\$2,000
Construction Management	\$11,000
Furnishings / Equipment	\$0
Construction / Improvement	\$760,000
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$700,000

Total	\$1,500,000
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Project Number: 3299989

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,500,000	\$1,499,000	\$1,499,000	\$1,499,000	\$1,499,000	\$7,496,000

Water System Rehabilitation or Replacement of Aging Infrastructure



Project Description

This project is to rehabilitate or replace aging water system infrastructure including waterlines, valves, hydrants, storage tanks, booster stations, and well sites. FY's 14/15 through 16/17 of this program include funding to rehabilitate four existing elevated storage tanks and several waterline replacement projects, based on waterline break history. Water line projects include: Stadium Drive - Miller to Curry Roads (In Construction); Weber Drive - Scottsdale Road to Stadium Drive (In Construction); Tempe Gardens and Superstition neighborhoods (In Design); Farmer Avenue - 1st Street to Broadway Road (In Design); Dorsey Drive - University to 8th Street (In Design); 17th through 19th Streets - Hardy to Roosevelt; Terrace Road - Broadway to Southern. Other water line project areas will include: Margo Drive - University Drive to 12th Place; Geneva Drive - Priest Drive to Albert Avenue; Taylor/Papago/Van Ness west of Scottsdale Road; Lemon Street; Una Ave from Dorsey to Orange Street and Hall St to Lemon Street. These projects have been identified as part of a long-term asset management program to ensure reliable operations.

Other more critical water lines may be identified and inserted into this project list as they are identified.

2014-15 Source of Funds

Water / Wastewater Bonds \$11,675,622

Estimated 2014-15 Project Costs

Legal / Administration	\$93,000
Land Acquisition	\$0
Permit Fees	\$328,000
Design and Engineering	\$1,113,000
Survey / Staking	\$93,000
Construction Management	\$650,000
Furnishings / Equipment	\$0
Construction / Improvement	\$9,276,000
Geotech / Material Testing	\$93,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$29,622

Total \$11,675,622

Project Number: 3204969

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$11,675,622	\$5,760,000	\$4,818,000	\$3,877,000	\$3,877,000	\$30,007,622

Water Utility Buildings Asset Management



Project Description

This CIP project is designed to cover the costs of building repairs. The service areas consist of JGMWTP, STWTP, and the Kyrene Campus. In conjunction with Facilities Maintenance, WUD personnel developed an ongoing replacement strategy for floors, roofs, HVAC, sprinkler systems, and elevators. In addition to ongoing replacement, office remodel is planned at the Environmental Administration Building to accommodate the sampling staff.

This program has been identified in partnership with Facilities Maintenance as part of a long-term asset management program to ensure reliable operations. Specific projects for FY 14/15 include: JGMWTP water heater replacement and sludge building roof and floors, STWTP HVAC, admin building roof, and transformer building repairs, and Environmental Building floors and minor remodel. Other infrastructure needs addressed by this CIP are as followed: storage tanks repairs and coatings- Papago Butte, Bell Butte, Hayden Butte East and Hayden Butte West; booster stations- Kyrene booster station analysis and improvements; large diameter valve replacement on our transmission mains; Phoenix interconnect rehabilitation - pump replacement, revised discharge piping to facilitate flushing, and; annual well rehabilitation.

2014-15 Source of Funds

Water / Wastewater Bonds \$317,821

Estimated 2014-15 Project Costs

Legal / Administration	\$1,000
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$8,000
Survey / Staking	\$1,000
Construction Management	\$242,821
Furnishings / Equipment	\$0
Construction / Improvement	\$63,000
Geotech / Material Testing	\$1,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$1,000

Total \$317,821

Project Number: 3207169

Estimated Start Date: 07/01/2014

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$317,821	\$277,180	\$279,399	\$382,333	\$353,662	\$1,610,395

Wells - New Production



Project Description

This project will add new groundwater production and recovery well capacity to the Tempe municipal system for back-up water production, supplemental drought supply, water quality blending, and emergency preparedness. This project will connect three Salt River Project (SRP) wells located along the Western Canal through an existing pipeline to the STWTP and provide for the drilling and equipping of two new production wells in south Tempe. The SRP wells will be connected during FY's 13/14 and 14/15. All work on the SRP wells, including design and engineering, will be performed by SRP and billed to the City. The new production wells will be constructed during FY's 15/16 and 17/18.

Additional groundwater and recovery well capacity for the Tempe municipal system is necessary to provide greater overall water production capacity and system redundancy to surface water treatment. Additional production well capacity provides back-up water production capacity for water treatment plants, supplemental supply during times of drought, water quality blending, and greater system redundancy and emergency preparedness. The goal is to increase groundwater production capacity to average daily water demand (45 MGD) in the service area by FY 17/18.

2014-15 Source of Funds

Water / Wastewater Bonds	\$1,749,352
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Estimated 2014-15 Project Costs

Legal / Administration	\$14,000
Land Acquisition	\$0
Permit Fees	\$49,000
Design and Engineering	\$167,000
Survey / Staking	\$14,000
Construction Management	\$98,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,393,352
Geotech / Material Testing	\$14,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$1,749,352
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Project Number: 3200019

Estimated Start Date: Ongoing

Estimated Completion Date: 12/30/2018

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,749,352	\$1,850,000	\$0	\$2,000,000	\$0	\$5,599,352

Wastewater Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Collection System and Pump Station Replacement and Repair: 3299969	Water / Wastewater Bonds	5,735,825	-	5,735,825	1,000,000	1,000,000	1,000,000	1,000,000	9,735,825
Ken McDonald Golf Course Recharge Project: 3209309	Water / Wastewater Bonds	-	-	-	-	1,255,000	-	1,255,000	2,510,000
Sewer Replacement and Upsizing - 5th Street and Smith Street: NA	Water / Wastewater Bonds	-	-	-	-	2,576,000	2,589,000	-	5,165,000
SROG - Southern Ave Interceptor, Salt River Outfall, and 91st Ave WWTP: 3200129	Development Impact Fees	500,000	-	500,000	-	-	-	-	500,000
	Water / Wastewater Bonds	481,242	1,073,780	1,555,022	3,396,510	7,354,376	17,962,266	6,005,848	36,274,022
	Project Total	981,242	1,073,780	2,055,022	3,396,510	7,354,376	17,962,266	6,005,848	36,774,022
Wastewater Metering Station Improvements: 3202559	Water / Wastewater Bonds	1,053,440	-	1,053,440	1,000,000	500,000	500,000	-	3,053,440
Wastewater Program Total		7,770,507	1,073,780	8,844,287	5,396,510	12,685,376	22,051,266	8,260,848	57,238,287

Collection System and Pump Station Replacement and Repair



Project Description

This project will repair and replace sewer lines at the end of their useful life and make improvements at the Knox, Alameda, Carver, and Camelot pump stations. Specific sewer projects anticipated in this CIP include: Maple Ash Neighborhood Sewer Replacement due to significant structural deterioration and capacity issues (design completed); Rio Salado and 1st Street Relief Sewer; Farmer Avenue Sewer Replacement - 1st Street to University to provide increased capacity for development (in design); Manhole Rehabilitation Project for evaluation of approximately 650 manholes on large diameter (18" and larger) sewers and rehabilitate as needed.

These projects have been identified as part of a long-term asset management program to ensure reliable operations. This project will also be used to replace or rehabilitate wastewater infrastructure at odor control facilities, and metering stations. FY's 15/16 through 18/19 funding is for infrastructure repairs as will be identified in engineering evaluations.

2014-15 Source of Funds

Water / Wastewater Bonds \$5,735,825

Estimated 2014-15 Project Costs

Legal / Administration	\$50,000
Land Acquisition	\$0
Permit Fees	\$165,000
Design and Engineering	\$550,000
Survey / Staking	\$50,000
Construction Management	\$320,000
Furnishings / Equipment	\$0
Construction / Improvement	\$4,565,700
Geotech / Material Testing	\$35,125
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$5,735,825

Project Number: 3299969

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$5,735,825	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$9,735,825

Ken McDonald Golf Course Recharge Project



Project Description

This is a continuation of a project initially funded in FY 09/10. The project will provide the balance of funding to drill and outfit up to two additional aquifer storage and recovery wells at the Ken McDonald Golf Course.

The primary purpose of the Ken McDonald Golf Course (KMGC) Recharge Project is to fully utilize Tempe's renewable reclaimed water supplies and add to the City's Assured Water Supply Portfolio by increasing the City's Long-Term Underground Storage Credit balance. The Project is permitted by the Arizona Department of Water Resources (ADWR) to store 3,400 acre-feet per year, and this volume of annual reclaimed water storage is included in Tempe's 100-year Assured Water Designation.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: 3209309

Estimated Start Date: 07/01/2016

Estimated Completion Date: 06/30/2018

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$0	\$1,255,000	\$0	\$1,255,000	\$2,510,000

Sewer Replacement and Upsizing - 5th Street and Smith Street



Project Description

This project allows upsizing of two sewer sections between Rio Salado and Apache Boulevards, on the west side of Price Road which involves replacing 2,650 feet of the existing 15" sanitary sewer at 5th Street, from Price to Smith Roads, and 2,670 feet of the existing 12" and 15" sanitary sewer at Smith Road, from University Drive to Apache Boulevard, with 18" sections.

This project is part of the city's program to ensure infrastructure is available for existing and future demands. This project will allow for increased wastewater flows resulting from re-development along Apache Boulevard. Budgeted funds are based on past projects and are preliminary.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 07/01/2015

Estimated Completion Date: 06/30/2016

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$0	\$2,576,000	\$2,589,000	\$0	\$5,165,000

SROG - Southern Ave Interceptor, Salt River Outfall, and 91st Ave WWTP



Project Description

This project represents Tempe's share of all capital project activities at the Southern Avenue Interceptor (SAI), Salt River Outfall (SRO), 91st Avenue Wastewater Treatment Plant (WWTP), and associated infrastructure including interceptor capacity, power lines, process control, optimization, digester gas, capital equipment and replacements, modifications and additions to meet regulatory requirements, and process enhancements. This plant is jointly owned by the Cities of Tempe, Phoenix, Mesa, Scottsdale, and Glendale and is operated by the City of Phoenix. The projected annual expenditures are anticipated in the most recent rate studies.

This project represents Tempe's investment in SROG (Sub Regional Operating Group). This investment provides for a wastewater treatment capacity of approximately 31.5 MGD at the 91st Ave WWTP. Conveyance capacity in the SAI and SRO is somewhat less than 31.5 MGD and is currently being quantified by a consultant to SROG. The city currently generates around 19 MGD of wastewater which is conveyed by the SAI and SRO and treated at the 91st Ave WWTP. The currently unused treatment capacity at 91st Ave WWTP will be necessary to meet future needs.

2014-15 Source of Funds

Development Impact Fees	\$500,000
Water / Wastewater Bonds	\$1,555,022

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$2,055,022
Total	\$2,055,022

Project Number: 3200129

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$2,055,022	\$3,396,510	\$7,354,376	\$17,962,266	\$6,005,848	\$36,774,022

Wastewater Metering Station Improvements



Project Description

This project will include installing new ventilation blower and exhaust louver systems, and covering the flow measurement flumes to prevent ventilation airflow from being forced into the sewer at the five meter stations, TP-01 (Priest), TP-02 (Gilbert), TP-03 (SAI), TP-04 (48th St), and TP-05 (NW). Project progress to date includes construction of improvements at TP-03 and design and bid documents completed and ready for construction for TP-02. FY 16/17 and 17/18 funding is to complete similar design and construction projects at TP-01, TP-04, and TP-05.

This project will control sanitary sewer nuisance odors in the vicinities of Priest Road and Rio Salado Parkway, Gilbert Road and Scottsdale Road, 48th Street and Southern Avenue, 48th Street and Rio Salado Parkway, and Priest Drive north of the Salt River related to existing wastewater flow metering stations at these locations. The project will also improve safety of the work environment within the metering stations. Constructing new station entrances and stairways will improve access for maintenance and sample collection providing safe entry for employees of SROG partner cities.

2014-15 Source of Funds

Water / Wastewater Bonds	\$1,053,440
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Estimated 2014-15 Project Costs

Legal / Administration	\$8,000
Land Acquisition	\$0
Permit Fees	\$28,000
Design and Engineering	\$96,000
Survey / Staking	\$8,000
Construction Management	\$56,000
Furnishings / Equipment	\$0
Construction / Improvement	\$800,000
Geotech / Material Testing	\$8,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$49,440

Total	\$1,053,440
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Project Number: 3202559

Estimated Start Date: Ongoing

Estimated Completion Date: 12/31/2014

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,053,440	\$1,000,000	\$500,000	\$500,000	\$0	\$3,053,440

Golf Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Rolling Hills Irrigation System: 6405929	Water / Wastewater Fund - Loan	200,000	2,500,000	2,700,000	-	-	-	-	2,700,000

Rolling Hills Irrigation System



Project Description

This project will convert the irrigation system at Rolling Hills Golf Course from a potable water source to an untreated raw water source. Additionally, this project will renovate the existing irrigation system, constructed in two phases in the 1970's and 1980's, improving efficiency and reducing overall water usage. The existing system uses potable water for irrigation, at a cost that is 15-17 times higher than using raw water.

A study is underway to update the project costs from an engineering study completed in 2003. Once this study is complete, design and construction costs will be confirmed for this CIP.

2014-15 Source of Funds

Water / Wastewater Fund - Loan	\$2,700,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$22,000
Land Acquisition	\$0
Permit Fees	\$89,000
Design and Engineering	\$191,000
Survey / Staking	\$22,000
Construction Management	\$154,000
Furnishings / Equipment	\$0
Construction / Improvement	\$2,200,000
Geotech / Material Testing	\$22,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$2,700,000
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Project Number: 6405929

Estimated Start Date: 11/01/2013

Estimated Completion Date: 09/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$2,700,000	\$0	\$0	\$0	\$0	\$2,700,000

Special Purpose Program



Transit projects total \$27.4 million in FY 2014-15 and account for 18% of the total FY 2014-15 appropriated CIP budget



The Special Purpose component of the Capital Improvements Program accounts for all projects included under a program area with a legally dedicated funding source. Currently, the Transit Program, which is funded by a dedicated one half cent City sales tax (the Transit Tax), is the City's only special revenue program area with capital projects in FY 2014-15.

For FY 2014-15 the Transit Tax is planned to provide \$5.4 million to fund transit capital projects. For the majority of these projects, the Transit Tax serves as the source of funds providing a required funding match to federal grants which are the primary project funding source. Federal grant contributions in FY 2014-15 amount to nearly \$14 million.

Transit projects in FY 2014-15 are focused on the completion of major multi use path projects, the final stages of construction for the Broadway, Hardy and University Drive streetscape projects, and transit capital asset maintenance and repair projects.

Transit Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Alameda Drive & I-10 Bicycle / Pedestrian Bridge: NA	Transit Tax	-	-	-	103,000	-	48,400	-	151,400
	Federal Grant - CMAQ	-	-	-	-	-	1,200,000	-	1,200,000
	Project Total	-	-	-	103,000	-	1,248,400	-	1,351,400
Bicycle Boulevard: NA	Transit Tax	-	-	-	100,000	100,000	100,000	100,000	400,000
Broadway Road Streetscape Project: 6003059	Transit Tax	527,883	1,294,330	1,822,213	-	-	-	-	1,822,213
	Federal Grant - CMAQ	-	3,857,670	3,857,670	-	-	-	-	3,857,670
	MAG - Safety Funds	-	705,000	705,000	-	-	-	-	705,000
	Project Total	527,883	5,857,000	6,384,883	-	-	-	-	6,384,883
Bus Stop Capital Maintenance: 6005239	Transit Tax	1,140,108	620,806	1,760,914	638,867	657,453	400,000	400,000	3,857,234
City of Tempe Bus Pullout Project: 6006764	Transit Tax	630,161	-	630,161	-	-	-	-	630,161
City of Tempe Bus Purchases - Fleet: 6006752	Transit Tax	125,000	-	125,000	-	-	-	-	125,000
	Federal Grant - 5307	500,000	-	500,000	-	-	-	-	500,000
	Project Total	625,000	-	625,000	-	-	-	-	625,000
CNG Expansion - East Valley Bus Operations & Maintenance Facility: 6005809	Transit Tax	473,457	-	473,457	-	-	-	-	473,457
	Federal Grant - 5307	-	1,054,100	1,054,100	-	-	-	-	1,054,100
	Project Total	473,457	1,054,100	1,527,557	-	-	-	-	1,527,557
Creamery Branch Rail Path (along 8th Street): 6007139	Transit Tax	-	206,000	206,000	-	126,979	-	-	332,979
	Federal Grant - CMAQ	-	-	-	-	1,379,021	-	-	1,379,021
	Project Total	-	206,000	206,000	-	1,506,000	-	-	1,712,000
El Paso Natural Gasline Easement Multi-use Path Phase III: 6006069	Transit Tax	147,947	75,400	223,347	-	-	-	-	223,347
	Federal Grant - CMAQ	-	1,323,000	1,323,000	-	-	-	-	1,323,000
	Project Total	147,947	1,398,400	1,546,347	-	-	-	-	1,546,347

2014-15 CIP Projects - Transit Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget	New 2014-15	2014-15 Total	Additional Projected Needs				Total 5-Year
		Re-appropriations	Appropriations	Appropriations	2015-16	2016-17	2017-18	2018-19	Program
EVBOM - Facility Asset Maintenance									
(East Valley Bus Ops/Maint Facility):									
6006089	Transit Tax	696,793	350,000	1,046,793	239,000	239,000	239,000	239,000	2,002,793
	Federal Grant - 5307	-	250,000	250,000	-	-	-	-	250,000
	Project Total	696,793	600,000	1,296,793	239,000	239,000	239,000	239,000	2,252,793
Hardy Drive Streetscape Project:									
6004379	Transit Tax	13,669	374,376	388,045	-	-	-	-	388,045
	Federal Grant - CMAQ	1,142,591	655,624	1,798,215	-	-	-	-	1,798,215
	Project Total	1,156,260	1,030,000	2,186,260	-	-	-	-	2,186,260
Highline Canal Path (Baseline - Knox Road): 6006079									
	Transit Tax	200,000	-	200,000	1,144,339	644,044	-	-	1,988,383
	Federal Grant - CMAQ	-	67,000	67,000	1,366,661	1,866,956	-	-	3,300,617
	Project Total	200,000	67,000	267,000	2,511,000	2,511,000	-	-	5,289,000
North South Rail Spur Path: 6007089									
	Transit Tax	-	347,000	347,000	-	-	-	-	347,000
	Federal Grant - CMAQ	-	65,000	65,000	-	-	-	-	65,000
	Project Total	-	412,000	412,000	-	-	-	-	412,000
Pathway Capital Maintenance: 6005249									
	Transit Tax	401,812	550,000	951,812	250,000	250,000	250,000	250,000	1,951,812
Rio Salado Southbank Path Tempe - Phoenix: 6004139									
	Transit Tax	695,180	460,000	1,155,180	-	-	-	-	1,155,180
	Federal Grant - CMAQ	961,861	-	961,861	-	-	-	-	961,861
	Project Total	1,657,041	460,000	2,117,041	-	-	-	-	2,117,041
Rio Salado Southbank Path Underpass at 101 & 202 Freeway Interchange: 6004319									
	Transit Tax	996,279	-	996,279	-	-	-	-	996,279
Rio Salado Southbank Path Underpass at Priest Drive: 6007189									
	Transit Tax	-	206,000	206,000	79,604	-	-	-	285,604
	Federal Grant - CMAQ	-	-	-	1,165,396	-	-	-	1,165,396
	Project Total	-	206,000	206,000	1,245,000	-	-	-	1,451,000
Tempe / Phoenix Bike Share: 6007199									
	Transit Tax	-	350,000	350,000	201,300	-	-	-	551,300
	Federal Grant - CMAQ	-	-	-	750,000	-	-	-	750,000
	Project Total	-	350,000	350,000	951,300	-	-	-	1,301,300
Tempe Transit Center: 6006762									
	Transit Tax	258,491	-	258,491	-	-	-	-	258,491

2014-15 CIP Projects - Transit Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Transit Passenger Facilities - Bus Stop Improvements: 6003579	Transit Tax	249,114	190,600	439,714	202,640	227,720	234,142	240,726	1,344,942
	Federal Grant - 5307	-	100,000	100,000	-	-	-	-	100,000
	Project Total	249,114	290,600	539,714	202,640	227,720	234,142	240,726	1,444,942
TTC - Facility Asset Maintenance (Transportation Center): 6006099	Transit Tax	200,000	314,000	514,000	214,000	214,000	214,000	214,000	1,370,000
Unaccounted Federal Grants Contingency: 6005259	Transit Tax	530,428	-	530,428	-	-	-	-	530,428
	Federal Grants	1,271,714	850,000	2,121,714	-	-	-	-	2,121,714
	Project Total	1,802,142	850,000	2,652,142	-	-	-	-	2,652,142
University Drive Bike/Ped Improvements (Union Pacific Railroad to Priest): 6004509	Transit Tax	59,964	51,300	111,264	-	-	-	-	111,264
	Federal Grant - CMAQ	992,023	848,700	1,840,723	-	-	-	-	1,840,723
	Project Total	1,051,987	900,000	1,951,987	-	-	-	-	1,951,987
Transit Program Total		12,214,475	15,165,906	27,380,381	6,454,807	5,705,173	2,685,542	1,443,726	43,669,629

Alameda Drive & I-10 Bicycle / Pedestrian Bridge



Project Description

This project is a bicycle and pedestrian bridge along the Alameda Drive alignment at the I-10 freeway. The project includes lighting, safety features and public art. The project would be an elevated crossing of the I-10 connection to a Tempe's Fountainhead Business Park (east side) to Tempe Diablo Stadium (west side). The project would link several Tempe neighborhoods and bikeways, particularly the bike route along Alameda Drive to major employment centers, the stadium and a city of Phoenix bike route on Roeser Road. The project is identified in MAG, ADOT, and local transportation plans. The project would be constructed with the I-10 Improvements Project. Currently there is \$1,200,000 in federal funding for the project and staff is working with ADOT to include the project with the I-10 Improvements Project. The project would remove a gap in the Tempe and Phoenix bikeway system.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 07/01/2015

Estimated Completion Date: 06/30/2018

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$103,000	\$0	\$1,248,400	\$0	\$1,351,400

Bicycle Boulevard



Project Description

This project would involve a variety of city-wide bicycle related improvements on designated bicycle corridors along paths and local and collector streets in Tempe. The specific improvements would include bike lanes, protected and buffered bike lanes, signal enhancements and upgrades, bicycle parking, signage, intersection improvements and more. Materials that would be funded through this item include paint, bollards, bicycle parking devices, landscaping, concrete/asphalt and other depending on the specific improvement. Designated bike boulevards and specific improvements will be included in the Transportation Master Plan and as a part of the plans public outreach process."

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$100,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 07/01/2015

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000

Broadway Road Streetcape Project



Project Description

The Broadway Road Pedestrian and Bicycle Improvement Project is approximately 1 mile between Mill Ave and Rural Road. The project consists of pedestrian and bicycle facility improvements along an arterial street fronted by single family residential units. Work to be performed includes striping for bike lanes, the widening of sidewalks, construction of planted medians, construction of a wall, pedestrian safety, street tree plantings, provisions for a mid-block crossing between Sierra Vista and Venture and providing transit and pedestrian amenities.

The proposed project area has a high volume of pedestrian and bicycle travel due to its proximity to ASU and downtown Tempe. Area residents are advocating changing the character of the street to reflect the residential uses on this stretch of Broadway Road, which differs significantly with the rest of corridor. The design of the Broadway Road project was a product of extensive community dialogues. The proposed project is identified in the Tempe Comprehensive Transportation Plan as one of the proposed corridors for improvement.

2014-15 Source of Funds

Transit Tax	\$1,822,213
Federal Grant - CMAQ	\$3,857,670
MAG - Safety Funds	\$705,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$6,384,883	\$0	\$0	\$0	\$0	\$6,384,883

Estimated 2014-15 Project Costs

Legal / Administration	\$46,000
Land Acquisition	\$0
Permit Fees	\$145,000
Design and Engineering	\$527,883
Survey / Staking	\$46,000
Construction Management	\$319,000
Furnishings / Equipment	\$705,000
Construction / Improvement	\$4,550,000
Geotech / Material Testing	\$46,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$6,384,883

Project Number: 6003059

Estimated Start Date: 10/01/2008

Estimated Completion Date: 12/01/2015

Bus Stop Capital Maintenance



Project Description

This project will repair, rehabilitate and or replace bus stop infrastructure that has or will surpass its useful life during the project year or due to excessive or adverse environmental exposures (e.g., sun, irrigation, high use). City-wide bus stops number 814 with sizes and amenities varying widely based on transit system demand. The bus stop infrastructure consists of bus shelters (297), benches (648), bike racks (969), trash receptacles (775), lighting (173), concrete pads (tbd), schedule holders (1,100), and bus stop signs (817). In general, these assets were purchased and installed between 1994 and 2008.

The purpose of the project is to maintain the city's bus stop infrastructure in a state of good repair, safe for use, and instrumental in promoting transit use. The bus stop represents the "lobby" to the transit system and must provide a safe, secure, and comfortable waiting area with adequate sun and weather protection for transit passengers.

2014-15 Source of Funds

Transit Tax	\$1,760,914
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,760,914	\$638,867	\$657,453	\$400,000	\$400,000	\$3,857,234

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$1,760,914
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,760,914

Project Number: 6005239

Estimated Start Date: 07/01/2013

Estimated Completion Date: Ongoing

City of Tempe Bus Pullout Project



Project Description

The project will install 1 to 3 new bus pullouts during FY 2014-15 with passenger amenities at various bus stops in the city. The project will also refurbish deteriorating existing bus pullouts. The locations for the next series of pull-outs will be based on industry standards which include sufficient right of way, changes in bus service levels, ridership, traffic volumes, and intersection safety considerations across the city. The project will install 1 - 2 bus pullouts per year in subsequent years based on location priority established by the current Transportation Master Plan.

Bus pull-outs provide safer layover areas, improve passenger safety and comfort by increasing distance from traffic flow, improve traffic flow along major streets, and improve intersection safety by reducing traffic back-ups behind buses.

2014-15 Source of Funds

Transit Tax	\$630,161
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$630,161
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$630,161
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Project Number: 6006764

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$630,161	\$0	\$0	\$0	\$0	\$630,161

City of Tempe Bus Purchases - Fleet



Project Description

This project provides federal funding for a prototype hybrid bus to determine appropriate specifications and feasibility of a long-term replacement vehicle to the Orbit fleet of 24 foot cutaway buses.

The purpose is to identify a more cost efficient vehicle that also provides greater passenger capacity, extended useful life, low or zero emissions, and which is suitable for operation in neighborhoods.

2014-15 Source of Funds

Transit Tax	\$125,000
Federal Grant - 5307	\$500,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$625,000

Total	\$625,000
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Project Number: 6006752

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$625,000	\$0	\$0	\$0	\$0	\$625,000

CNG Expansion - East Valley Bus Operations & Maintenance Facility



Project Description

This project will expand the East Valley Bus Operations and Maintenance Facility's Compressed Natural Gas (CNG) fuel dispensing capacity from 2 to 4 dispensers. Upgrades will include all necessary improvements, vessels, heat exchangers, etc... to maintain current fueling capacity per dispenser.

The project is needed to accommodate the larger bus fleet size associated with the unification of Tempe and RPTA bus operations.

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$473,457
Construction / Improvement	\$1,054,100
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,527,557

Project Number: 6005809

Estimated Start Date: 07/01/2013

Estimated Completion Date: 10/01/2014

2014-15 Source of Funds

Transit Tax	\$473,457
Federal Grant - 5307	\$1,054,100

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,527,557	\$0	\$0	\$0	\$0	\$1,527,557

Creamery Branch Rail Path (along 8th Street)



Project Description

This project is the construction of a pathway along the Creamery Branch Rail Spur and streetscape improvements along 8th Street. The project path would include landscaping and lighting along the non-operational rail track next to 8th Street (between Rural and McClintock) adjacent to ASU and near downtown Tempe. The streetscape improvements are adjacent to and integrated in with the rail path and would include street trees, enhanced sidewalks and improved bicycle lanes. The project area includes two historic Tempe neighborhoods (Borden Homes & University Heights), a connection to a light rail station, and a strong neighborhood commercial center that includes the 4 Peaks Brewing Company. A public process and stakeholder committee was established in 2010 and completed an approved concept plan in September 2010.

This project would enhance a well traveled collector street and place a pathway along a rail spur to accommodate a stronger bicycle and pedestrian environment that will promote the city's mission of increasing transit, bike and pedestrian travel. The project concept has been supported by the neighbors, property owners and stakeholders in the area and would be revitalization to an important part of Tempe.

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$6,000
Design and Engineering	\$200,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$206,000

Project Number: 6007139

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2017

2014-15 Source of Funds

Transit Tax	\$206,000
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$206,000	\$0	\$1,506,000	\$0	\$0	\$1,712,000

El Paso Natural Gasline Easement Multi-use Path Phase III



Project Description

The project is a 1/2 mile path extension of the existing El Paso Gasline Path, extending from Price Road to McClintock Drive. This project will extend from Rural Road into Kiwanis Community Park. A bike lane along Southshore Drive, between McClintock and Rural, connects these two projects. The project will include a paved path, with lighting, landscaping, public art and other amenities. The project will meet all ADA requirements and the project is funded almost entirely with \$1,323,000 in federal transportation grants.

The project will link major residential areas (The Lakes, Optimist Park etc...) with the regional Kiwanis Community Park and the neighborhood parks of Optimist, Gaiki and Scudder. Additionally the path will connect to Fuller, Fees, Rover, and Aguilar Schools. The project connects to many transit routes and the 6 mile Western Canal Pathway. The project continues Tempe's commitment to multi-modal transportation and improving upon what is already the highest percentage of bicycle commuters in the state. The project is both a recreational amenity (linear park) and a transportation corridor.

2014-15 Source of Funds

Transit Tax	\$223,347
Federal Grant - CMAQ	\$1,323,000

Estimated 2014-15 Project Costs

Legal / Administration	\$11,000
Land Acquisition	\$0
Permit Fees	\$39,000
Design and Engineering	\$278,947
Survey / Staking	\$11,000
Construction Management	\$78,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,117,400
Geotech / Material Testing	\$11,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,546,347

Project Number: 6006069

Estimated Start Date: 10/11/2011

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,546,347	\$0	\$0	\$0	\$0	\$1,546,347

EVBOM - Facility Asset Maintenance (East Valley Bus Ops/Maint Facility)



Project Description

This project conducts major repair, refurbishment, or replacement of major equipment and sub-systems at the East Valley Bus Operations and Maintenance facility (EVBOM). EVBOM is a 250 bus facility from which the all of Tempe's transit service is provided. It also serves as a regional operations base managed by the Regional Public Transportation Authority (RPTA). Maintaining the facility in state of good repair facilitates the provision of local and regional bus service on a daily basis by allowing for the timely and effective fleet repairs; efficient fueling, fare collection, and cleaning; efficient operations; and safe working conditions for the roughly 600 Tempe, RPTA and contractor staff based there.

The major deliverables for the EVBOM Maintenance Building include: code compliant air monitoring system throughout the maintenance building; code compliant HVAC system for rooms M139 and M143; HVAC repairs to the Administrative Building to correct heating and cooling deficiencies; and a complete and operational Energy Management System including all necessary hardware and computer interfacing for these improvements. Design Study is currently under contract and will determine total cost for upgrade.

2014-15 Source of Funds

Transit Tax	\$1,046,793
Federal Grant - 5307	\$250,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$350,000
Construction / Improvement	\$946,793
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,296,793

Project Number: 6006089

Estimated Start Date: 07/01/2013

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,296,793	\$239,000	\$239,000	\$239,000	\$239,000	\$2,252,793

Hardy Drive Streetcape Project



Project Description

The Hardy Road Pedestrian and Bicycle Improvement Project is approximately 1 mile in length between Broadway Road and University Drive. The project consists of pedestrian and bicycle facility improvements along a collector street fronted primarily by single family residential units. The proposed project area has a high volume of pedestrian and bicycle travel due to its proximity to ASU, Downtown Tempe, Rio Salado and the high industrial and office employment area south of the project. Area residents are advocating retaining the neighborhood character of the street to reflect the residential uses on this stretch of which differs significantly south of the proposed project area.

The Transportation Element of the Tempe General Plan classified Hardy Drive as a Green Street. Green streets typically are collector streets that already serve as high volume bicycle and pedestrian corridors. The neighborhood is requesting geometric changes to the street including striping for bike lanes, widening of sidewalks and providing bulb-outs at critical intersections, reduction of existing travel lane widths, construction of planted medians, protection from intrusion of commercial truck traffic, improved pedestrian safety, reduction of speed limits, construction of mid-block crossings and providing transit, bicycle and pedestrian amenities.

2014-15 Source of Funds

Transit Tax	\$388,045
Federal Grant - CMAQ	\$1,798,215

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$2,186,260	\$0	\$0	\$0	\$0	\$2,186,260

Estimated 2014-15 Project Costs

Legal / Administration	\$19,000
Land Acquisition	\$0
Permit Fees	\$61,000
Design and Engineering	\$44,739
Survey / Staking	\$19,000
Construction Management	\$130,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,854,521
Geotech / Material Testing	\$10,000
Utility Relocation Fees	\$48,000
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$2,186,260

Project Number: 6004379

Estimated Start Date: 01/15/2012

Estimated Completion Date: 06/30/2015

Highline Canal Path (Baseline - Knox Road)



Project Description

This project is the design and construction of a 3.5 mile pathway along the Highline Canal in west central Tempe. The Salt River Project canal runs north and south from Baseline Road on the north to Knox Road on the south and is one of the last remaining canal banks in Tempe without a dedicated path for public use. This path has been awarded federal funding in the fall of 2013. This project would integrate with and connect to planned and funded portions of pathway along the Highline Canal in the Town of Guadalupe and the City of Phoenix. The project would have a public outreach component. The path would include street crossing treatments, fencing (where needed), landscaping, lighting and a paved path that meets all ADA and national transportation design standards.

This project is part of the City's Transportation Master Plan and is in concert with the Tempe General Plan. It continues Tempe's commitment to building facilities that support increasing the numbers of people utilizing non-motorized forms of transportation to assist in reducing air pollution and traffic congestion. The project will serve many Tempe neighborhoods and link to Guadalupe and Phoenix. It will create an improved aesthetic in an area now neglected (canal banks) and enhance the quality of life for area residents.

2014-15 Source of Funds

Transit Tax	\$200,000
Federal Grant - CMAQ	\$67,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$267,000	\$2,511,000	\$2,511,000	\$0	\$0	\$5,289,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$2,000
Design and Engineering	\$265,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$267,000

Project Number: 6006079

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2017

North South Rail Spur Path



Project Description

This project involves the design and construction of up to 8 miles of a multi-use path adjacent to the existing freight rail line travelling north and south in Tempe, from Tempe Beach Park to Knox Road and the border with Chandler. The project involves constructing a 10 foot minimum path with lighting and landscaping, street crossing treatments and other amenities. Some public outreach has taken place and a \$65,000 MAG grant has been received for concept design of the project. It is anticipated that this path project would eventually be built in phases (1-2 miles at a time, 1-2 crossings at time) and as such will require future separate CIP requests for each project.

This project is identified in the Tempe General Plans and Transportation Plan. It is part of the expansion of transportation alternatives to decrease dependency on the private automobile. The project has been requested by several businesses and neighborhoods and has already had some portions built through agreements with private business. The project would complement existing transportation systems.

2014-15 Source of Funds

Transit Tax	\$347,000
Federal Grant - CMAQ	\$65,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$412,000	\$0	\$0	\$0	\$0	\$412,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$12,000
Design and Engineering	\$400,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$412,000

Project Number: 6007089

Estimated Start Date: 07/01/2014

Estimated Completion Date: TBD

Pathway Capital Maintenance



Project Description

This project will repair, rehabilitate or replace multi-use pathway (MUP) infrastructure that will surpass its useful life during the project period or due to excessive or adverse environmental exposures (e.g., sun, irrigation, high use, damage, theft). There are currently 23 miles of MUPs in Tempe. This project has multiple elements such as: 1) Replacement of pathway lighting systems including poles and associated infrastructure (wiring, bulbs, fixtures, concrete, shields) 2) Replacement of fencing along Kyrene Pathway near Ken McDonald golf course that has been structurally damaged due to irrigation, 3) Repair/replacement of segments of concrete pathways that pose hazards to users.

The purpose of these projects is to maintain the city's bike and pedestrian pathway system in a state of good repair, safe for use, instrumental in promoting citywide bike-pedestrian use, and leading to increases in the bike-pedestrian mode share of all trips. Replacement and maintenance campaigns will be established for each pathway segment based on the transit program's asset management program for pathway infrastructure and phased over the five (5) year CIP period.

2014-15 Source of Funds

Transit Tax	\$951,812
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$951,812	\$250,000	\$250,000	\$250,000	\$250,000	\$1,951,812

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$951,812
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$951,812

Project Number: 6005249

Estimated Start Date: 07/01/2013

Estimated Completion Date: Ongoing

Rio Salado Southbank Path Tempe - Phoenix



Project Description

The Project provides funding for the design and construction of a continuation of the Tempe Rio Salado multi-use path system. This segment would extend from Priest Drive to State Road 143 on the western city limit of Tempe. The path would be on the south bank of the river channel. The project is part of a regional path network connecting specifically to Phoenix. This project is only for hardscape elements, including pathway, lighting, and railings. The project does not include landscaping or public art; both of which could be added later or in partnership with adjacent private development. The character of the project area is native desert. The project would require only lighting and pavement management operations costs. The project construction is funded by federal transportation grants.

The project would extend the regional multi-use path system to the City of Phoenix and Tempe. This project is the final west end path piece of the Rio Salado path system and would complete the path system on the south bank of the Rio Salado from McClintock Drive to the Hohokam Freeway for a total of 4 miles.

2014-15 Source of Funds

Transit Tax	\$1,155,180
Federal Grant - CMAQ	\$961,861

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$2,117,041	\$0	\$0	\$0	\$0	\$2,117,041

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$460,000
Construction / Improvement	\$1,657,041
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$2,117,041

Project Number: 6004139

Estimated Start Date: 07/01/2010

Estimated Completion Date: 06/30/2015

Rio Salado Southbank Path Underpass at 101 & 202 Freeway Interchange



Project Description

The project will construct a shared use path from McClintock drive to the Mesa city limits and includes a portion of pathway underneath Loop 202 at the 202/101 Traffic Interchange. The project is the eastern-most connection of the Tempe Rio Salado and links directly to Mesa along the south bank of the Salt River. The project involves a 10-foot wide concrete path with lighting and safety railings. The project is funded through a federal transportation grant managed through the Arizona Department of Transportation. Majority of the project funding is identified in the ADOT budget.

The project provides a non-motorized link along a regionally significant riparian corridor between 2 major centers, Tempe Marketplace and Mesa Riverview. Additionally, the project will eliminate the main obstruction connecting Tempe to Mesa and will link to the Scottsdale Indian Bend Wash, Rio Salado, Downtown Tempe, Arizona State University, and Metro Light Rail. Finally the project is located in a Tempe Enterprise Zone which supports Tempe City Council's efforts to revitalize areas that serve low income neighborhoods. This path project continues the Tempe Rio Salado pathway from McClintock to the Mesa city limits.

2014-15 Source of Funds

Transit Tax	\$996,279
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$996,279	\$0	\$0	\$0	\$0	\$996,279

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$996,279
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$996,279

Project Number: 6004319

Estimated Start Date: 07/01/2011

Estimated Completion Date: 06/30/2015

Rio Salado Southbank Path Underpass at Priest Drive



Project Description

This project is the construction of a bicycle/pedestrian path underpass at Priest Drive along the south bank of the Rio Salado. The project will connect to an existing path on the east side of Priest and to another path on the west side that will be constructed in 2013. The project will be concrete and lit and meet all ADA requirements and will provide emergency vehicle access.

This project provides an accessible and safe crossing under Priest Drive for the Rio Salado Path users, where today none exists. The project will link a more than 5 miles system of paths along the Rio Salado and Town Lake area.

2014-15 Source of Funds

Transit Tax	\$206,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$6,000
Design and Engineering	\$200,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$206,000
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Project Number: 6007189

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2016

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$206,000	\$1,245,000	\$0	\$0	\$0	\$1,451,000

Tempe / Phoenix Bike Share



Project Description

The Regional Bike Share program will include multiple cities and Valley Metro and will provide 20 or more locations in Tempe for rental of bicycles at automated bicycle rack kiosks. The kiosks will be in City right-of-way and in high activity areas like downtown Tempe, Tempe Town Lake, the Tempe Public Library, and the Tempe Center for the Arts. The project is modelled after other cities and is similar to the nationwide Zipcar program, which also operates in Tempe, where the public has ease of access to renting a car. The project will include a public process to identify best locations for racks and bikes and will be a partnership with Valley Metro and other cities.

The bike share project is intended to provide additional sustainable transportation opportunities in Tempe and the region. It will provide enhanced bicycle service access that will link directly to transit options. Bike share is a successful program in other cities nationwide and is a logical extension of the Tempe system. It will enable visitors, students, residents and others to obtain a bike easily in most activity areas around Tempe and further improve Tempe's menu of alternative mode options.

2014-15 Source of Funds

Transit Tax	\$350,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$350,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$350,000
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Project Number: 6007199

Estimated Start Date: 07/01/2014

Estimated Completion Date: 12/01/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$350,000	\$951,300	\$0	\$0	\$0	\$1,301,300

Tempe Transit Center



Project Description

This project will complete the build-out of the ground floor retail space of the Tempe Transportation Center and ready it for lease by a retail/restaurant application. The major elements of the project include 1) Essential Building Systems - for design and construction of gas lines, ventilation system, drainage system, grease interceptor, 10% contingency, and related city fees, and 2) Standard Tenant Improvements - for a tenant improvement allowance based on an appropriate market rate per square foot.

The Tempe Transportation Center is a 40,000 square foot federally funded mixed-use sustainable facility that is specifically designed to accommodate retail and office functions. Approximately 3,996 square feet of the ground floor is to be managed and leased as transit-oriented retail space. Income from a potential lease of this space would be available to support the transit program including operating and capital maintenance of the Transportation Center.

2014-15 Source of Funds

Transit Tax	\$258,491
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$258,491
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$258,491
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Project Number: 6006762

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$258,491	\$0	\$0	\$0	\$0	\$258,491

Transit Passenger Facilities - Bus Stop Improvements



Project Description

The project will install passenger shelters and related amenities (seating, bike racks, trash cans, transit schedule information) at 10 bus stops across the city in FY 2014-15 with 5 installations in each of the subsequent 4 fiscal years. Locations identified as suitable for installation of a bus stop shelter and associated amenities include stops that meet the following criteria: location is served by at least one bus route with productivity at or above 2.0 boardings per mile; and immediate physical environment offers no weather/sun protection or seating.

The bus stop represents the "lobby" to the transit system and must provide a safe, secure, and comfortable waiting area with adequate sun and weather protection for transit passengers. Adding additional bus shelters remains a top priority for Tempe and valley transit passengers as reported in public opinion research as the valley's high sun and heat are significant barriers to more Tempe residents choosing transit as a viable alternative to auto-use.

2014-15 Source of Funds

Transit Tax	\$439,714
Federal Grant - 5307	\$100,000

Estimated 2014-15 Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$5,000
Design and Engineering	\$18,000
Survey / Staking	\$2,000
Construction Management	\$11,000
Furnishings / Equipment	\$0
Construction / Improvement	\$499,714
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$539,714
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Project Number: 6003579

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$539,714	\$202,640	\$227,720	\$234,142	\$240,726	\$1,444,942

TTC - Facility Asset Maintenance (Transportation Center)



Project Description

This project conducts major repair, refurbishment, or replacement of major equipment, infrastructure, and sub-systems at the Tempe Transportation Center. The facility was completed in 2008 and acts as a major multi-modal transit center served by 12 bus routes which include Orbit circulators, local and express service and by METRO light rail. The transit center portion of the transit center includes passenger amenities such as benches, shelters, landscape, a transit store and public restrooms. Due to its proximity to downtown Tempe and ASU activity centers, the center experiences heavy use during City or university related special events and during moderate climate seasons. Maintaining the building and transit center in a state of good repair maintains good working condition for staff and tenants while ensuring the site is safe and functional for transit operations and public use.

In FY 2014-15 it is anticipated that the project will address repairs and maintenance at the transit center such as pavement repair and restoration, rest room refurbishment, plaza repairs and building systems replacement or repair which include chillers, water recycle system. In addition, funding will cover tenant improvements for the 1st floor retail space upon lease execution.

2014-15 Source of Funds

Transit Tax	\$514,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$314,000
Construction / Improvement	\$200,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$514,000
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Project Number: 6006099

Estimated Start Date: 07/01/2013

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$514,000	\$214,000	\$214,000	\$214,000	\$214,000	\$1,370,000

Unaccounted Federal Grants Contingency



Project Description

This project will create additional spending authority for federal grants that may be available during FY 2014-15. The City must account for potential federal grants that could be secured and that need to be spent within 2014-2015. Potential grant funded projects include: a) South Tempe Transit Center; b) University Drive Bicycle and Pedestrian Improvements; c) EVBOM CNG Fuel Capacity Expansion; d) East Valley Solar Generation Capacity Improvements; e) Passenger Facility Rehabilitation; and f) Bus Stop Improvements.

2014-15 Source of Funds

Transit Tax	\$530,428
Federal Grants	\$2,121,714

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$2,652,142

Total	\$2,652,142
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Project Number: 6005259

Estimated Start Date: 07/01/2013

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$2,652,142	\$0	\$0	\$0	\$0	\$2,652,142

University Drive Bike/Ped Improvements (Union Pacific Railroad to Priest)



Project Description

The University Drive improvement Project is approximately 1 mile between Mill Ave and the Union Pacific Railroad (west of Mill Avenue). The project consists of pedestrian and bicycle facility improvements along an arterial street. Work to be performed includes design and construction of a variety of streetscape elements which may include: ADA improvements, crosswalks, medians, transit shelters and amenities, landscaping, sidewalks, bike lanes, shade and street furniture. The project will support reduced automobile dependency and improved air quality. Project construction is funded through federal CMAQ grants.

The goal of the project is to enhance travel options for people of all ages and non-motorized users including: school children, seniors, professionals and college students accessing commercial centers, local parks, downtown Tempe, and ASU. The project fulfills the Tempe General Plan 2030 objective of increasing mode share for non-motorized travel. The project will involve public meetings with neighbors and businesses/property owners in the area.

2014-15 Source of Funds

Transit Tax	\$111,264
Federal Grant - CMAQ	\$1,840,723

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,951,987
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,951,987

Project Number: 6004509

Estimated Start Date: 10/01/2011

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,951,987	\$0	\$0	\$0	\$0	\$1,951,987

General Purpose Program

General Purpose projects total \$68.7 million in FY 2014-15 and account for 46% of the FY 2014-15 appropriated CIP budget



The General Purpose component of the Capital Improvements Program includes Police Protection, Fire Protection, Storm Drains, Park Improvements, and General Governmental programs. Combined, they constitute \$68.7 million of the \$150.4 million Capital Improvements Budget for FY 2014-15.

The majority of the funding for the five program areas above is to be provided by the planned issuance of \$48.8 million of general obligation bonds, followed by approximately \$8 million in existing project fund balances. The balance is funded from pay as you go contributions from various City operating funds, and other outside revenue.

Major areas of emphasis in FY 2014-15 include various repair and replacement projects for parks infrastructure, design and construction of the Tempe Town Lake dam, fire truck replacements, continued improvements to the City's regional radio system, and numerous capital asset repair and replacement projects for municipal buildings.

Police Protection Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
CAD / RMS / FRWS System: 5501999	General Obligation Bonds	255,000	-	255,000	-	-	-	-	255,000
City Regional Radio System Maintenance and Replacement: 5501989	Capital Projects Fund Balance	-	740,000	740,000	-	-	-	-	740,000
	General Obligation Bonds	88,000	1,216,420	1,304,420	2,823,942	3,582,873	1,964,240	-	9,675,475
	G.O. Bonds Election Required	-	-	-	-	-	-	1,060,269	1,060,269
	Solid Waste Fund	5,000	100,150	105,150	100,820	140,880	53,822	55,088	455,760
	Water / Wastewater Fund	7,000	239,493	246,493	279,901	255,574	75,350	77,123	934,441
	Project Total	100,000	2,296,063	2,396,063	3,204,663	3,979,327	2,093,412	1,192,480	12,865,945
Digital Evidence System: 5507179	General Obligation Bonds	-	161,000	161,000	126,000	126,000	-	-	413,000
Mobile Replacement: 5509189	General Obligation Bonds	400,000	-	400,000	-	-	500,000	-	900,000
	G.O. Bonds Election Required	-	-	-	-	-	1,600,000	-	1,600,000
	Project Total	400,000	-	400,000	-	-	2,100,000	-	2,500,000
Police Communications Telephone / Radio Logger Replacement: NA	G.O. Bonds Election Required	-	-	-	-	-	-	311,728	311,728
Police Department / Detention Camera Upgrade: NA	G.O. Bonds Election Required	-	-	-	-	-	-	150,000	150,000
Police Department Taser Refresh: NA	G.O. Bonds Election Required	-	-	-	-	-	-	600,000	600,000
Police Mounted Security Upgrade @ Kiwanis Maintenance Yard: 5507279	General Obligation Bonds	-	275,000	275,000	-	-	-	-	275,000
Police Protection Program Total		755,000	2,732,063	3,487,063	3,330,663	4,105,327	4,193,412	2,254,208	17,370,673

Project Description

This project will replace the Police Department's existing Computer Aided Dispatch (CAD) System, Records Management System (RMS), and Field Report Writing System (FRWS). Combined, these three software components serve as the automated data collection, storage, and retrieval system for the Police Department.

Replacing this system will provide considerable functionality that will allow the Police Department to more efficiently capture and manage data, and will provide the foundation for future data sharing efforts with other jurisdictions.

2014-15 Source of Funds

General Obligation Bonds	\$255,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$255,000
Other Project Costs	\$0
Total	\$255,000

Project Number: 5501999

Estimated Start Date: Ongoing

Estimated Completion Date: 12/31/2014

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$255,000	\$0	\$0	\$0	\$0	\$255,000

City Regional Radio System Maintenance and Replacement

Project Description

The over-reaching goal of this project is for Tempe to continue as a functioning member of the Regional Wireless Cooperative (RWC) ASTRO P25 700/800 MHz digital interoperable radio system. This project will continue to allow secure, day-to-day, real time communications between Tempe users as well as allowing interoperability between Tempe and the sixteen other member agencies and the numerous other partner agencies.

The RWC has communicated to its users, including Tempe that it plans to upgrade to Project 25 Phase 2 TDMA operations within the next six years in order to comply with the FCC's mandate. Tempe is responsible for upgrading and/or replacing "end user" equipment to accommodate this upgrade.

All Tempe municipal, police and fire portable and mobile radios must be replaced. Dispatch equipment used at the Apache Police substation, Emergency Operations Center, Fleet Maintenance, Hardy Police substation, Johnny G Martinez Water facility and the Water Reclamation Building will also need to be replaced and or upgraded.

2014-15 Source of Funds

Capital Projects Fund Balance	\$740,000
General Obligation Bonds	\$1,304,420
Solid Waste & Water/Wastewater Funds	\$351,643

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$2,396,063
Total	\$2,396,063

Project Number: 5501989

Estimated Start Date: 12:00:00 AM

Estimated Completion Date: 12:00:00 AM

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$2,396,063	\$3,204,663	\$3,979,327	\$2,093,412	\$1,192,480	\$12,865,945

Digital Evidence System



Project Description

The Digital Evidence System will provide the Police Department the ability to safely, securely, and efficiently collect, store, and manage all digital evidence—including still images, videos and audio recordings. The Digital Evidence System will replace the Police Department's current server based evidence storage system for still images, and provide a central repository for audio and video recordings which currently does not exist. It will transform and simplify the way the Police Department collects, stores, and disseminates increasingly large amounts of digital evidence. The Digital Evidence System will include the use of a vendor hosted solution for media storage of new digital evidence and convert existing digital evidence (which requires subscription based service charges). The project will also include the replacement of cameras in the Forensic Services Unit used to capture crime scene photographs and the purchase of body cameras for use by Police Officers.

2014-15 Source of Funds

General Obligation Bonds	\$161,000
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$161,000	\$126,000	\$126,000	\$0	\$0	\$413,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$161,000
Total	\$161,000

Project Number: 5507179

Estimated Start Date: 07/01/2014

Estimated Completion Date: ongoing

Mobile Replacement



Project Description

This project is intended to ensure access to the Police Department fully integrated public safety system by replacing Police Department mobile and desktop computers. Police Department mobile computers need to be replaced every four to five years to ensure access is available and to limit failure in the field. Based on day to day operations, ruggedized mobile desktops and mounts that support mobiles in vehicles are required to limit damage that might occur through normal police activities.

Police Department desktop computers need to be replaced every five years to ensure access is available to run our Computer-Aided Dispatch (CAD), Records Management System (RMS), Jail Management System (JMS) and Property and Evidence systems. These systems make-up our fully integrated public safety system and they are critical to the day-to-day operations within the Police Department and to help ensure field officers are equipped with the necessary information to respond to citizen calls for service and detectives are equipped to further investigate and solve cases.

2014-15 Source of Funds

General Obligation Bonds	\$400,000
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$400,000	\$0	\$0	\$2,100,000	\$0	\$2,500,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$400,000
Other Project Costs	\$0
Total	\$400,000

Project Number: 5509189

Estimated Start Date: 07/01/2017

Estimated Completion Date: 06/30/2019

Police Communications Telephone/Radio Logger Replacement



Project Description

This project will replace the existing Voice Radio/Telephone recorder which provides 24/7 recordings of all incoming and outgoing radio and telephone traffic involving the day-to-day operations of the Police Department's Communications Bureau.

The current equipment used to record all incoming and outgoing radio and telephone traffic is more than 6 years old and, as we continue to upgrade our overall radio and telephone infrastructure, will no longer interface with newer technology. The recordings from this system are utilized for investigative purposes, court proceedings, and training on a daily basis. Having recordings available assists the Police Department in prosecuting criminals as well as provides protection to the City from potential liability by being able to provide a direct record of personnel actions during both major and minor incidents.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 07/01/2015

Estimated Completion Date: 11/01/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$0	\$0	\$0	\$311,728	\$311,728

Police Department / Detention Camera Upgrade



Project Description

This project entails a complete replacement and technological upgrade to the Jail's aging analog CCTV system to include installation of digital cameras, camera housings and recording capabilities to ensure best practices of high quality video, sound and camera movement capabilities for 24/7 monitoring of prisoner and employee movement throughout the jail facility and surrounding prisoner movement areas. This will greatly reduce City liability exposure from use of force, injury and similar complaints while providing greater risk management through real time advanced camera capabilities.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 07/01/2015

Estimated Completion Date: 06/30/2016

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$0	\$0	\$0	\$150,000	\$150,000

Police Department Taser Refresh



Project Description

All sworn police officers are issued a Taser as part of their assigned equipment. A highly effective tool, the Taser allows police officers to defend themselves and/or 3rd parties from individuals and animals who pose a threat to the safety and security of the community. At present the current Taser warranty for all of the units currently deployed is scheduled to expire in 2017 (a department wide refresh occurred in 2013).

Funds allocated for this project would be used to purchase: 400 Tasers, 400 Taser battery packs, 400 Taser holsters, 2500 Taser cartridges, 4 Taser data download systems, training, and a 4 year Taser warranty.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 01/01/2017

Estimated Completion Date: 06/30/2017

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$0	\$0	\$0	\$600,000	\$600,000

Police Mounted Security Upgrade @ Kiwanis Maintenance Yard



Project Description

The City of Tempe park maintenance yard at 6300 S. All America Way houses several city operational components to include Parks, Facility Maintenance and the Police Department. The Police Department specifically operates the mounted and canine units at this location. Project funding will be designated for security upgrades to the yard. The upgrades will include installing a solid eight (8) foot decking fence on the west perimeter from Guadalupe to the north end of the yard property, security cameras and card access gates for the east and south access points.

To further harden the perimeter, security cameras would be utilized to cover the main access points of the yard, west perimeter fence and the police barn area. This camera system would be joined with the existing monitoring system at the Apache Police Station and could be accessed and monitored by Tempe Police Dispatch. The security enhancements will significantly target harden the Kiwanis facility providing a safer environment for the police horses and staff, significantly deter theft of critical police vehicles and city assets to include parks maintenance equipment and the fuel pump station.

2014-15 Source of Funds

General Obligation Bonds \$275,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$275,000
Total	\$275,000

Project Number: Need New

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$275,000	\$0	\$0	\$0	\$0	\$275,000

Fire Protection Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Fire Apparatus Replacement: 5603619	General Obligation Bonds	1,706,898	1,100,000	2,806,898	550,000	1,100,000	550,000	-	5,006,898
	G.O. Bonds Election Required	-	-	-	-	-	-	550,000	550,000
	Project Total	1,706,898	1,100,000	2,806,898	550,000	1,100,000	550,000	550,000	5,556,898
Fire Laptop Replacement: 5603629	General Obligation Bonds	207,014	-	207,014	-	32,800	72,000	-	311,814
	G.O. Bonds Election Required	-	-	-	-	-	-	18,000	18,000
	Project Total	207,014	-	207,014	-	32,800	72,000	18,000	329,814
Fire Station Location Study: 5605937	Capital Projects Fund Balance	150,000	-	150,000	-	-	-	-	150,000
Fire Training Center Facilities: 5605949	Capital Projects Fund Balance	-	105,000	105,000	-	-	-	-	105,000
	General Obligation Bonds	318,274	495,000	813,274	-	-	-	-	813,274
	Project Total	318,274	600,000	918,274	-	-	-	-	918,274
Fire Protection Program Total		2,382,186	1,700,000	4,082,186	550,000	1,132,800	622,000	568,000	6,954,986

Fire Apparatus Replacement



Project Description

This project provides funding to purchase fire apparatus which has been identified for replacement. Replacement is predicated on age, miles and operational costs (repair, maintenance, mileage, engine hours, and fuel consumption). Fire apparatus are evaluated for replacement after 10 years or when mileage exceeds 120,000. Extensive repair or maintenance costs may cause a unit to warrant earlier replacement. The Department currently has 10 apparatus that are 12 to 20 years old and eight apparatus that exceed 150,000 miles each. Fire Department's Maintenance Division is continuously challenged to keep this fleet in service.

Fire apparatus are replaced to maintain a high level of reliability, decrease maintenance cost, decrease down time of front line apparatus, and to take advantage of advances in safety and service capabilities that are available in newer vehicles. To be in accordance with replacement criteria, FY 14-15 appropriations provide funding to purchase five new apparatus, three of which were ordered in FY 13-14. FY 15-16 to FY 18-19 vehicles are subject to change as the Department is in the process of reviewing life cycles for unique apparatus.

2014-15 Source of Funds

General Obligation Bonds	\$2,806,898
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$2,806,898
Total	\$2,806,898

Project Number: 5603619

Estimated Start Date: 07/01/2011

Estimated Completion Date: 12/30/2019

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$2,806,898	\$550,000	\$1,100,000	\$550,000	\$550,000	\$5,556,898

Fire Laptop Replacement



Project Description

This project will provide for the replacement of ruggedized laptop computers used by Fire personnel in the field for electronic patient care reporting (ePCR), and development of a wireless fire apparatus infrastructure to accommodate small devices (cell phones), laptops and heart monitors. Fire paramedics gather critical patient information while en-route to the hospital, which is transmitted to the treating facility prior to the patients' arrival, therefore enhancing patient care. The ruggedized laptops are used daily, with over 17,000 annual EMS calls. A five year replacement plan is suggest by ITD. The scope of the project also includes laptops for the City's Emergency Operations Center operations. Those laptops are between six and seven years old.

2014-15 Source of Funds

General Obligation Bonds	\$207,014
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$207,014
Other Project Costs	\$0
Total	\$207,014

Project Number: 5603629

Estimated Start Date: Continuing

Estimated Completion Date: 06/30/2019

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$207,014	\$0	\$32,800	\$72,000	\$18,000	\$329,814

Fire Station Location Study



Project Description

This project includes funding for a fire facilities and deployment study. One purpose of the study is to maximize the Fire Department's staffing and deployment for emergency response. A previous fire station relocation plan was first presented to the City Council in 1990, it is over 20 years old and needs to be revised. The last fire station (station #6) was built over nine years ago, since then call volume has increase by 23% and response time has gone from five minutes and 28 seconds to five minutes and 47 seconds. This study will incorporate present and anticipated demographic changes.

2014-15 Source of Funds

Capital Projects Fund Balance	\$150,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$150,000
Total	\$150,000

Project Number: 5605937

Estimated Start Date: 11/01/2013

Estimated Completion Date: 08/30/2014

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$150,000	\$0	\$0	\$0	\$0	\$150,000

Fire Training Center Facilities



Project Description

This project provides for repair and maintenance of the Fire Training Center buildings. The project will also address repairs required at the Skills Building in accordance with a structural evaluation conducted in 2012. The scope of this project has been slightly altered to include associated Skills Building props with no additional funding, as well as, Driver Training Track repair with an additional cost of \$70,000. Repairs to the Burn Room Building are based on age and use (built in 1993).

A structural evaluation conducted in 2012 of the Fire Training Skills buildings, revealed the following items to address: replacement of corroded steel doors, replacement of corroded steel ledgers, patching concrete, reinforcement and support of balcony, repair of damaged precast panels, improve building drainage, remove an usable gas line, and installation of an ice machine. The extensive use of this facility and the significant benefits derived from firefighters' training, which directly impacts the delivery of service to the community, have exceeded expectations. Because the building sustains damage with each live fire training, it limits the life of the building. Last year the Burn Room and Skills Tower were used 118 days for fire training and it was vital to firefighter preparedness and safety.

2014-15 Source of Funds

Capital Projects Fund Balance	\$105,000
General Obligation Bonds	\$813,274

Estimated 2014-15 Project Costs

Legal / Administration	\$4,000
Land Acquisition	\$0
Permit Fees	\$13,000
Design and Engineering	\$43,000
Survey / Staking	\$4,000
Construction Management	\$25,000
Furnishings / Equipment	\$0
Construction / Improvement	\$360,000
Geotech / Material Testing	\$4,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$465,274
Total	\$918,274

Project Number: 5605949

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2016

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$918,274	\$0	\$0	\$0	\$0	\$918,274

Storm Drains Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Storm Drain Improvements: 5899978	Capital Projects Fund Balance	582,591	100,000	682,591	-	-	-	-	682,591
	General Obligation Bonds	-	100,000	100,000	200,000	300,000	300,000	300,000	1,200,000
	Project Total	582,591	200,000	782,591	200,000	300,000	300,000	300,000	1,882,591

Storm Drain Improvements



Project Description

This project includes ongoing maintenance, preservation, and upgrades to the existing storm drain system. Scope would include replacement and upgrades of existing catch basins, new storm drain manholes to facilitate maintenance of the existing pipe network, and additional storm drains to relieve flooding in localized areas.

In FY 2014-15 there are several projects: McAllister and Apache flooding (\$75,000), the north side of US 60 and Bonarden Lane (\$35,000), 25 total catch basins on University Drive, Broadway Road, and Hardy Drive for projects requiring pavement resurfacing this year (\$150,000), the Rio Salado south bank Town Lake bypass storm drain (\$600,000), and numerous other requests for drywell rehabilitation, flooding and vector control problems, and various other storm drain structure issues in parks (30 structures holding water and 2 drywells not draining), and streets (flooding in several intersections).

2014-15 Source of Funds

Capital Projects Fund Balance	\$682,591
General Obligation Bonds	\$100,000

Estimated 2014-15 Project Costs

Legal / Administration	\$3,000
Land Acquisition	\$0
Permit Fees	\$10,000
Design and Engineering	\$33,000
Survey / Staking	\$3,000
Construction Management	\$19,000
Furnishings / Equipment	\$0
Construction / Improvement	\$711,591
Geotech / Material Testing	\$3,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$782,591

Project Number: 5899978

Estimated Start Date: 07/01/2014

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$782,591	\$200,000	\$300,000	\$300,000	\$300,000	\$1,882,591

Park Improvements / Recreation Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Aquatics (Swimming Pool) Infrastructure & Equipment Replacement: 6304999	General Obligation Bonds	15,000	575,000	590,000	565,000	945,000	-	-	2,100,000
	G.O. Bonds Election Required	-	-	-	-	-	710,000	500,000	1,210,000
	Project Total	15,000	575,000	590,000	565,000	945,000	710,000	500,000	3,310,000
ARC Flash Hazard Analysis - Parks: 6305959	Capital Projects Fund Balance	-	50,000	50,000	-	-	-	-	50,000
	General Obligation Bonds	100,000	-	100,000	50,000	50,000	-	-	200,000
	Project Total	100,000	50,000	150,000	50,000	50,000	-	-	250,000
Athletic Field Lighting System Replacement: 6303089	General Obligation Bonds	123,104	745,000	868,104	-	60,000	-	-	928,104
	G.O. Bonds Election Required	-	-	-	-	-	800,000	735,000	1,535,000
	Project Total	123,104	745,000	868,104	-	60,000	800,000	735,000	2,463,104
Ballfield Infield Renovation: 6305969	Capital Projects Fund Balance	200,000	-	200,000	-	-	-	-	200,000
	General Obligation Bonds	80,000	-	80,000	92,700	95,481	-	-	268,181
	G.O. Bonds Election Required	-	-	-	-	-	98,345	101,296	199,641
	Project Total	280,000	-	280,000	92,700	95,481	98,345	101,296	667,822
Batting Range Pitching Machine / Netting Replacement: 6307209	General Obligation Bonds	-	136,500	136,500	-	-	-	-	136,500
Clark Park Swimming Pool Renovation: NA	G.O. Bonds Election Required	-	-	-	-	-	-	100,000	100,000
Diablo Stadium Capital Replacement & Reinvestment: 6303009	General Obligation Bonds	9,000	150,000	159,000	150,000	200,000	-	-	509,000
	Diablo Stadium Revenue	-	122,500	122,500	47,500	47,500	47,500	47,500	312,500
	G.O. Bonds Election Required	-	-	-	-	-	200,000	175,000	375,000
	Project Total	9,000	272,500	281,500	197,500	247,500	247,500	222,500	1,196,500
I-10 Pit Engineering Study: 6307117	Capital Projects Fund Balance	-	15,000	15,000	-	-	-	-	15,000
	Residential Development Fee	-	60,000	60,000	-	-	-	-	60,000
	Project Total	-	75,000	75,000	-	-	-	-	75,000
Kiwanis Park Playground Replacement & Renovations: 6306809	Capital Projects Fund Balance	710,000	-	710,000	-	-	-	-	710,000
	General Obligation Bonds	350,000	-	350,000	-	-	-	-	350,000
	Project Total	1,060,000	-	1,060,000	-	-	-	-	1,060,000

2014-15 CIP Projects - Park Improvements / Recreation Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Kiwanis Recreation Center Electric Infrastructure Replacement: 6305979	General Obligation Bonds	10,000	250,000	260,000	-	-	-	-	260,000
Park Concrete & Sports Court Replacement & Renovation: 6305119	General Obligation Bonds	125,000	125,000	250,000	125,000	130,000	-	-	505,000
	G.O. Bonds Election Required	-	-	-	-	-	105,000	120,000	225,000
	Project Total	125,000	125,000	250,000	125,000	130,000	105,000	120,000	730,000
Park Improvements: 6399729	Cash	5,800,000	200,000	6,000,000	-	-	-	-	6,000,000
Park Infrastructure / Equipment Replacement: 6399829	General Obligation Bonds	195,000	290,000	485,000	240,000	-	-	-	725,000
	G.O. Bonds Election Required	-	-	-	-	300,000	250,000	250,000	800,000
	Project Total	195,000	290,000	485,000	240,000	300,000	250,000	250,000	1,525,000
Park Lighting System Replacement & Renovation: 6305489	General Obligation Bonds	180,000	125,000	305,000	125,000	-	-	-	430,000
	G.O. Bonds Election Required	-	-	-	-	375,000	375,000	250,000	1,000,000
	Project Total	180,000	125,000	305,000	125,000	375,000	375,000	250,000	1,430,000
Park Playground Infrastructure & Equipment Replacement & Renovation: 6305499	General Obligation Bonds	210,000	125,000	335,000	125,000	-	-	-	460,000
	G.O. Bonds Election Required	-	-	-	-	400,000	400,000	300,000	1,100,000
	Project Total	210,000	125,000	335,000	125,000	400,000	400,000	300,000	1,560,000
Park Restrooms and Ramadas: 6305129	General Obligation Bonds	523,104	200,000	723,104	200,000	-	-	-	923,104
	G.O. Bonds Election Required	-	-	-	-	316,000	290,000	854,000	1,460,000
	Project Total	523,104	200,000	723,104	200,000	316,000	290,000	854,000	2,383,104
Parks & Recreation Emergency Repairs: 6305989	Capital Projects Fund Balance	-	75,000	75,000	-	-	-	-	75,000
	General Obligation Bonds	-	-	-	75,000	-	-	-	75,000
	G.O. Bonds Election Required	-	-	-	-	75,000	75,000	75,000	225,000
	Project Total	-	75,000	75,000	75,000	75,000	75,000	75,000	375,000
Parks Living Infrastructure and Irrigation Systems: 6305999	General Obligation Bonds	50,000	50,000	100,000	75,000	-	-	-	175,000
	G.O. Bonds Election Required	-	-	-	-	130,000	70,000	50,000	250,000
	Project Total	50,000	50,000	100,000	75,000	130,000	70,000	50,000	425,000

2014-15 CIP Projects - Park Improvements / Recreation Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Skate Park Structural Repairs: 6302629	General Obligation Bonds	12,000	15,000	27,000	15,000	-	-	-	42,000
	G.O. Bonds Election Required	-	-	-	-	15,000	15,000	15,000	45,000
	Project Total	12,000	15,000	27,000	15,000	15,000	15,000	15,000	87,000
Sports Facility Relamping: 6306938	Capital Projects Fund Balance	5,000	-	5,000	-	-	-	-	5,000
	G.O. Bonds Election Required	-	-	-	-	25,000	55,000	20,000	100,000
	Project Total	5,000	-	5,000	-	25,000	55,000	20,000	105,000
Tempe Beach Splash Playground Modification: 6506931	Capital Projects Fund Balance	-	240,000	240,000	-	-	-	-	240,000
	General Obligation Bonds	25,000	-	25,000	-	-	-	-	25,000
	Project Total	25,000	240,000	265,000	-	-	-	-	265,000
Town Lake Dam Replacement: 6504229	Capital Projects Fund Balance	2,387,683	789,230	3,176,913	-	-	-	-	3,176,913
	Capital Improvements Reserve	-	2,400,000	2,400,000	-	-	-	-	2,400,000
	Debt Service Fund	-	1,000,000	1,000,000	-	-	-	-	1,000,000
	General Obligation Bonds	13,550,000	18,611,851	32,161,851	-	-	-	-	32,161,851
	Project Total	15,937,683	22,801,081	38,738,764	-	-	-	-	38,738,764
Town Lake Emergency Warning Modifications: 6503771	Capital Projects Fund Balance	16,349	-	16,349	-	-	-	-	16,349
Park Improvements / Recreation Program Total		24,676,240	26,350,081	51,026,321	1,885,200	3,163,981	3,490,845	3,592,796	63,159,143

Aquatics (Swimming Pool) Infrastructure & Equipment Replacement



Project Description

This project encompasses the on-going replacement and renovation of the existing aquatics facilities. The City of Tempe's aquatics facilities continue to need replacement of major equipment and structural components. All facilities have aging infrastructures that have not been addressed in previous projects. Also large operational equipment are at the end of their life cycles and need to be replaced. Many of the replacement projects will address safety standards to meet existing and future rules and regulations. Many projects will improve energy efficiency: saving the City energy dollars. In fiscal year 2014-15, this project consists of the following improvements to City of Tempe Aquatics facilities:

- SES panel replacement at Escalante and McClintock pools \$165,000 - Both of these SES panels are at the end of their life cycle. The panels consist of parts from multi-vendors because they are not available for these aging panels. These panels are a potential safety concern.
- Re-plaster of Kiwanis Wave pool \$250,000 - The pool was last plaster in 2000 and needs to be re-plastered every 5-10 years. Presently there is a large bubble which is the first sign the plaster is starting to de-grade.
- Industrial high volume circulation fans for Kiwanis Wave pool \$35,000
- Overhead rail system to remove & replace wave fan motors \$20,000.

2014-15 Source of Funds

General Obligation Bonds	\$590,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$15,000
Design and Engineering	\$25,000
Survey / Staking	\$0
Construction Management	\$33,000
Furnishings / Equipment	\$0
Construction / Improvement	\$470,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$42,000

Total	\$590,000
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Project Number: 6304999

Estimated Start Date: 07/01/2012

Estimated Completion Date: 06/30/2019

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$590,000	\$565,000	\$945,000	\$710,000	\$500,000	\$3,310,000

ARC Flash Hazard Analysis - Parks



Project Description

This project will provide funding for an electrical system engineering study that is performed by engineers familiar with the power distribution and control equipment and the calculation methods required. The consultant will label all electrical equipment components as defined in NFPA 70E-standard for electrical safety in the workplace. The study will review switchboards, panel boards, industrial control panels, meter socket enclosures and motor control centers all which are likely to require examination, adjustments, servicing or maintenance while energized. This study will continue our current project at city parks.

City of Tempe maintains a park infrastructure system valued at \$223.4 million covering nearly 1900 acres in 48 parks. 75% of City parks are over 20 years old including many of the electrical systems. There are over 1500 lights in the park system (area, sports courts, and sports field lights).

2014-15 Source of Funds

Capital Projects Fund Balance	\$50,000
General Obligation Bonds	\$100,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$2,000
Design and Engineering	\$73,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$75,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$150,000
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Project Number: 6305959

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2016

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$150,000	\$50,000	\$50,000	\$0	\$0	\$250,000

Athletic Field Lighting System Replacement



Project Description

This project's original purpose was to upgrade the lighting levels at all the existing deficient baseball, softball and multi-purpose athletic fields so that they are in compliance with Illuminating Engineering Society (I.E.S.) recommendations. However in recent years sports lighting pole safety issues and aging electrical service section replacement has taken priority as well as lighting deficiency. Current fiscal funding was used for the replacement of the athletic lighting system of two multi-purpose fields at the Benedict Sports Complex. This project will consist of the following five year replacement program at Tempe's athletic facilities:

2014 - 15 (\$745,000) Benedict Sports Complex Field #1 & 2; Project Design for 2017-18 - Kiwanis Rec Center Tennis Courts
 2016 - 17 (\$60,000) Project Design for 2018-19 - Daley Park Ballfields
 2017 - 18 (\$800,000) Kiwanis Recreation Center Tennis Courts (\$740,000); Project Design for 2019-20 - Svob, Stroud & Corbell Park Soccer Fields (\$60,000).
 2018 - 19 (\$735,000) Daley Park Ballfields (\$675,000); Project Design for 2020-21 - Estrada, Hanger & Harelson Park Soccer Fields (\$60,000).

2014-15 Source of Funds

General Obligation Bonds	\$868,104
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$868,104	\$0	\$60,000	\$800,000	\$735,000	\$2,463,104

Estimated 2014-15 Project Costs

Legal / Administration	\$6,000
Land Acquisition	\$0
Permit Fees	\$20,000
Design and Engineering	\$107,104
Survey / Staking	\$6,000
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$689,000
Geotech / Material Testing	\$6,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$34,000
Total	\$868,104

Project Number: 6303089

Estimated Start Date: 07/01/2008

Estimated Completion Date: 06/30/2022

Ballfield Infield Renovation



Project Description

The purpose of this project is to improve the conditions of softball and baseball fields by providing playing surfaces that generate less dust thus contributing to the air quality, easy to maintain resulting in reduced labor requirements.

The city has 20 softball and baseball fields (excluding Diablo Stadium) whose infields and warning tracks have deteriorated from use and age to such an extent that they are extremely dusty when users play on them and require watering down to control the dust. Funding for this project will be used on 14 of the fields that are used for league and recreational programming, to remove the existing infield and warning track mix, laser grade, spike roll and replace it with a product that is dust free and does not require watering and allows play to continue very quickly even after a rainstorm. The goal is to coordinate this effort with the Living Infrastructure CIP to provide better field conditions. The replacement infield and warning track mixes will last for almost 10 years with minimal maintenance. The estimated cost per field is \$45,000. In 2015-16 the softball fields at Escalante and Jaycee Park will be renovated.

2014-15 Source of Funds

Capital Projects Fund Balance	\$200,000
General Obligation Bonds	\$80,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$280,000	\$92,700	\$95,481	\$98,345	\$101,296	\$667,822

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$280,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$280,000

Project Number: 6305969

Estimated Start Date: 07/01/2014

Estimated Completion Date: Ongoing

Batting Range Pitching Machine / Netting Replacement



Project Description

This project includes the replacement of all 18 batting cage machines, light indicator boxes, token boxes and the facility canopy/cage netting. This will help reduce maintenance costs because of the continual replacement of parts, some of which are hard to find or are no longer manufactured. The manufacturer indicates that the normal lifecycle of the pitching machines is anywhere from 12-15 years. The existing machines are nearing 24 years old. The age of the existing machines raises the concern of possible pitching malfunctions that could lead to customer injury, and/or potential legal action against the City. The canopy netting at the Kiwanis Park Batting Range is deteriorating due to UV, weather and damage caused by normal wear and tear.

2014-15 Source of Funds

General Obligation Bonds	\$136,500
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Estimated 2014-15 Project Costs

Legal / Administration	\$1,000
Land Acquisition	\$0
Permit Fees	\$5,000
Design and Engineering	\$0
Survey / Staking	\$1,000
Construction Management	\$10,000
Furnishings / Equipment	\$0
Construction / Improvement	\$106,500
Geotech / Material Testing	\$1,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$12,000
Total	\$136,500

Project Number: 6307209

Estimated Start Date: 07/01/2014

Estimated Completion Date: 01/01/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$136,500	\$0	\$0	\$0	\$0	\$136,500

Clark Park Swimming Pool Renovation



Project Description

Clark swimming pool is 39 years old and the entire structure is at the end of its useful cycle. Major reconstruction and renovation must be performed to restore this facility so it can be used by the citizens as a pool again. Attendance at this facility has suffered the last several years of operation, primarily due to a lack of amenities and user groups would rather attend a pool with more play and recreational options. The project will replace the existing recreation center and bath house (both in poor condition) with a single multi-use building.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 07/01/2018

Estimated Completion Date: 04/30/2019

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$0	\$0	\$0	\$100,000	\$100,000

Diablo Stadium Capital Replacement & Reinvestment



Project Description

This project is to provide for the ongoing contractual capital requirements and improvements to the Diablo Stadium Sports Complex. The city is contractually required to address Angel identified Stadium and Diablo Complex capital needs on an annual basis. This project consists of the following five year program of improvements at Diablo Stadium:

2014-15: Stadium infield renovation (\$50,000); Warning track material replacement, fields 3 & 4 (\$35,000); Shade structure for maintenance yard (\$21,000); Fence replacement around complex (\$20,000); Minor League Clubhouse floor reseal (\$4,000); Parking lot resurfacing, (\$35,000); Angels' requests (\$57,500)

2015-16: Warning track material fields 5 & 6 (\$30,000); Stadium dugout floor replacement (\$12,000); Scoreboard for field 4, (\$75,000); Angels offices carpet replacement (\$15,000); Minor league clubhouse floor reseal (\$4,000); Major league weight room floor reseal (\$50,000); Angels' requests (\$36,500)

2016-17 Stadium pad replacement (\$60,000); Windscreen replacement (\$50,000); Fertilizer sprayer (\$30,000); Press box counter replacement (\$15,000); Minor league clubhouse floor reseal (\$4,000); Angels' requests (\$63,500)

2017-18 Stadium concourse repair and re-surface (\$222,500)

2018-19 Mondo flooring replacement, major and minor league complex (\$222,500)

2014-15 Source of Funds

Diablo Stadium Revenue	\$122,500
General Obligation Bonds	\$159,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$281,500
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$281,500

Project Number: 6303009

Estimated Start Date: 07/01/2014

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$281,500	\$197,500	\$247,500	\$247,500	\$222,500	\$1,196,500

I-10 Pit Engineering Study



Project Description

This project is an engineering study and concept design of the I-10 Pit as a potential site for a future City park.

In 1990, the City of Tempe entered into an IGA with the state of Arizona for the purpose of managing the "I-10 Pit" at I-10 and Warner Road. The IGA has 25 years duration with an option to renew. The end of term date is approaching, October of 2015. The IGA allows the city to use the pit for public, non-profit purposes in addition to a storm drainage basin, including public recreation.

For years the "Pit" has been the subject of numerous conversations about the potential for adaptive re-use into a park amenity. The "pit" serves as a perfect example of how we can add capacity to our park system to accommodate the anticipated growth in parks usage and increased participation in youth sports. Staff envisions a process that could be undertaken over the next 12 months that would be used to evaluate the potential of this site for parks purposes.

2014-15 Source of Funds

Residential Development Fee	\$60,000
Capital Projects Fund Balance	\$15,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$75,000

Total \$75,000

Project Number: 6307117

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$75,000	\$0	\$0	\$0	\$0	\$75,000

Kiwanis Park Playground Replacement & Renovations



Project Description

This project was established to address the deteriorating condition of the Kiwanis Park Fiesta Playground. It provides for the complete replacement of all play equipment, and the renovation of the playground will bring it into compliance with current ADA and safety requirements and guidelines.

The proposed design of the playground was taken to the public related to whether a splash playground should or should not be included in the playground. The public chose not to include it. This created a major change for the construction plans, and thus creates a delay in having the project ready for bidding.

2014-15 Source of Funds

Capital Projects Fund Balance	\$710,000
General Obligation Bonds	\$350,000

Estimated 2014-15 Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$17,000
Design and Engineering	\$10,000
Survey / Staking	\$5,000
Construction Management	\$35,000
Furnishings / Equipment	\$430,000
Construction / Improvement	\$500,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$53,000

Total \$1,060,000

Project Number: 6306809

Estimated Start Date: 07/01/2001

Estimated Completion Date: 09/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,060,000	\$0	\$0	\$0	\$0	\$1,060,000

Kiwanis Recreation Center Electric Infrastructure Replacement



Project Description

This project is the replacement of the electrical SES infrastructure at the Kiwanis Recreation Center, Tennis Center and Wave pool. The project includes the replacement of the SES and electrical panels at the tennis center which are over 40 years old. The two main electric service sections at the recreation center were installed in 1986, and are at the end of their expected 25 year life cycle.

2014-15 Source of Funds

General Obligation Bonds	\$260,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$6,000
Design and Engineering	\$30,000
Survey / Staking	\$0
Construction Management	\$13,000
Furnishings / Equipment	\$0
Construction / Improvement	\$184,000
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$23,000

Total \$260,000

Project Number: 6305979

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$260,000	\$0	\$0	\$0	\$0	\$260,000

Park Concrete & Sports Court Replacement & Renovation



Project Description

This is an ongoing project to provide ADA accessible walkways to playgrounds and other park & athletic amenities where they still don't exist in the majority of our parks and sports facilities. It also funds the regular replacement/construction of park basketball courts; provides for a five year resurfacing schedule of the Indian Bend & Harelson Park Tennis Courts and the Mitchell, Creamery, Redden Park basketball courts; and the resurfacing of the asphalt walkways/plazas in Sellehand Meyer, and the Kiwanis Park Ballfields. In fiscal years 2015 and 2016 this project will consist of the following program of resurfacing, replacement and construction in Tempe's parks: Goodwin Park ADA Access (\$50,000); Mitchell Park Basketball Ct. Resurfacing (\$10,000); Kiwanis Park Ballfield Plaza Resurfacing (\$25,000); Daley Basketball Ct. Resurface (\$5,000); Joyce Basketball Ct. Resurface (\$5,000); Optimist Basketball Ct. Resurface (\$5,000); Corbell Basketball Ct. Resurface (\$5,000).

Scudder Park ADA Access (\$60,000); Meyer Park Path Resurfacing (\$10,000); Indian Bend Park Tennis Ct. Resurfacing (\$15,000); Creamery Park Basketball Ct. Resurfacing (\$5,000); Hanger Basketball Ct. Resurface (\$5,000); Harelson Basketball Ct. Resurface (\$5,000); Kiwanis-Romero Basketball Ct. Resurface (\$10,000).

2014-15 Source of Funds

General Obligation Bonds	\$250,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$1,000
Land Acquisition	\$0
Permit Fees	\$1,000
Design and Engineering	\$3,000
Survey / Staking	\$1,000
Construction Management	\$3,000
Furnishings / Equipment	\$0
Construction / Improvement	\$230,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$11,000
Total	\$250,000

Project Number: 6305119

Estimated Start Date: 07/01/2012

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$250,000	\$125,000	\$130,000	\$105,000	\$120,000	\$730,000

Park Improvements



Project Description

This project will fund improvements in various parks throughout the city and will have spending authority of up to approximately \$6 million in 2014-15 contingent upon land sale proceeds or some other cash funding source becoming available.

Projects will be based on an asset management, best practices approach to ensure that the most critical elements, using on a condition rating spread throughout the entire park system, take priority.

2014-15 Source of Funds

Cash	\$6,000,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$350,000
Survey / Staking	\$0
Construction Management	\$350,000
Furnishings / Equipment	\$0
Construction / Improvement	\$5,300,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$6,000,000

Project Number: 6399729

Estimated Start Date: 07/01/2007

Estimated Completion Date: 06/30/2027

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$6,000,000	\$0	\$0	\$0	\$0	\$6,000,000

Park Infrastructure / Equipment Replacement



Project Description

This ongoing project provides for the annual miscellaneous replacement of picnic tables/equipment, benches, trash receptacles, drinking fountains, backstops, fencing, soccer goals, basketball standards, signage, sand, rubber safety surfacing, etc. in all the City's various parks, athletic facilities, aquatic facilities, and other various Tempe parks & recreation facilities. In fiscal years 2015 through 17 this project will consist of the following program of park equipment & infrastructure replacement:

2014 - 15 Park & Picnic Equipment (\$100,000); Backstops & Fencing (\$100,000); Sports/Play Equipment (\$25,000); Safety Surfacing (\$25,000); Signage (\$15,000); Design (\$25,000); Unplanned/Emergency Replacements (\$60,000).

2015 - 16 Park & Picnic Equipment (\$100,000); Backstops & Fencing (\$50,000); Sports/Play Equipment (\$25,000); Safety Surfacing (\$25,000); Signage (\$15,000); Design (\$25,000); Unplanned/Emergency Replacements (\$60,000).

2016 - 17 Park & Picnic Equipment (\$100,000); Backstops & Fencing (\$50,000); Sports/Play Equipment (\$25,000); Safety Surfacing (\$25,000); Signage (\$15,000).

2014-15 Source of Funds

General Obligation Bonds	\$485,000
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$485,000	\$240,000	\$300,000	\$250,000	\$250,000	\$1,525,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$25,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$460,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$485,000

Project Number: 6399829

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Park Lighting System Replacement & Renovation



Project Description

This is an ongoing project to provide for the complete replacement of a park's lighting system. It brings the lighting in each park into compliance with current City and I.E.S. (Illuminating Engineering Society) guidelines and standards. It will include the replacement of the aged electrical service sections, poles & fixtures and other related equipment. The lighting in the majority of our parks has lighting systems & equipment ranging in age from a minimum of 20 - 50+ years. As a park's lighting system continues to age the light levels in that park continues to decline, becoming more and more inadequate. Also the majority of our parks received general area lighting for the entire park rather than any additional lighting for a common use area such as playgrounds. This project will consist of the following five year park lighting/electrical replacement program in Tempe's parks:

2014 - 15 Goodwin (\$125,000).

2015 - 16 Scudder (\$125,000);

2016 - 17 (\$375,000) Svob (\$125,000); Selleh (\$125,000); Dwight (\$125,000);

2017 - 18 (\$375,000) Petersen (\$125,000); Celaya (\$125,000); Palmer (\$125,000).

2018 - 19 (\$250,000) Daumler (\$125,000); Ehrhardt (\$125,000).

2014-15 Source of Funds

General Obligation Bonds	\$305,000
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$305,000	\$125,000	\$375,000	\$375,000	\$250,000	\$1,430,000

Estimated 2014-15 Project Costs

Legal / Administration	\$3,000
Land Acquisition	\$0
Permit Fees	\$10,000
Design and Engineering	\$27,000
Survey / Staking	\$1,000
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$235,000
Geotech / Material Testing	\$1,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$28,000
Total	\$305,000

Project Number: 6305489

Estimated Start Date: 07/01/2012

Estimated Completion Date: Ongoing

Park Playground Infrastructure & Equipment Replacement & Renovation



Project Description

This is an ongoing project to provide for the complete replacement of all equipment and safety surfacing in an average of two park playgrounds per year. It will provide for bringing each playground into compliance with current CPSC, ASTM and ADA guidelines, standards and law. The playgrounds in the majority of our 45+ park playgrounds have equipment ranging in age from a minimum of 15 - 30+ years. This project will consist of the following five year playground replacement program in Tempe's parks:

2014 - 15 Goodwin (\$100,000)

2015 - 16 Scudder (\$150,000)

2016 - 17 Svob (\$100,000); Selleh (\$150,000). Dwight (\$125,000);

2017 - 18 Petersen (\$150,000).Celaya (\$150,000); Palmer (\$125,000).

2018 - 19 Daumler (\$150,000); Ehrhardt (\$150,000).

2014-15 Source of Funds

General Obligation Bonds \$335,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$30,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$305,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$335,000

Project Number: 6305499

Estimated Start Date: 07/01/2012

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$335,000	\$125,000	\$400,000	\$400,000	\$300,000	\$1,560,000

Park Restrooms and Ramadas



Project Description

This project will replace/renovate restrooms and ramadas to ensure they are safe, accessible and in good working condition. Within each park, Tempe maintains park structures including over 50 ramadas and approximately 20 restrooms. Restroom renovation involves replacing the traditional style restrooms (enclosed facility with stalls) with unisex units such as the ones at Tempe Beach Park. Restrooms generally will be rebuilt in the same location and only relocated when necessary. Park ramadas with metal roofs and masonry columns have an expected life of 30+ years. Size varies from 20' x 20' (\$75,000) to 20' x 40' (\$100,000).

2014-15: Start Kiwanis Park ballfield restroom construction – 8 unit structure and install utility outlets for drive-up/temporary concessions. Finish Hallman ramadas.

2015-16: Finish Kiwanis Park ballfield restroom construction; Daley Park ramadas construction

2016-17: Clark Park ramada construction. Standard ramada design update (\$5,000 - 3 year renewal required); Daley Park restroom design

2017-18: Daley Park restroom construction- 4 unit structure. Benedict restroom design

2018-19: Benedict Park restroom construction.

2014-15 Source of Funds

General Obligation Bonds \$723,104

Estimated 2014-15 Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$6,000
Design and Engineering	\$19,000
Survey / Staking	\$2,000
Construction Management	\$11,000
Furnishings / Equipment	\$0
Construction / Improvement	\$681,104
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$723,104

Project Number: 6305129

Estimated Start Date: 07/01/2014

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$723,104	\$200,000	\$316,000	\$290,000	\$854,000	\$2,383,104

Parks & Recreation Emergency Repairs



Project Description

This project creates contingency funding to address the unexpected infrastructure failures, public safety issues and/or contractual obligations. In recent years due to an aging parks & recreation facility system, a series of emergency and/or unexpected infrastructure repairs and replacements has been required.

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$75,000

Total \$75,000

Project Number: 6305989

Estimated Start Date: 07/01/2013

Estimated Completion Date: Ongoing

2014-15 Source of Funds

Capital Projects Fund Balance \$75,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000

Parks Living Infrastructure and Irrigation Systems



Project Description

Within each park, Tempe maintains living infrastructure including trees, shrubs, groundcover, soil, turf, and gravel with an annual reinvestment target of \$125,000 to replace the living infrastructure on a life cycle basis. Tempe maintains close to 16,000 trees and shrubs. Typically park trees have an expected life span of no more than 20 years. Within each park, Tempe maintains irrigation systems to water the living infrastructure. This includes controllers, electrical systems, sprinkler heads and main and lateral distribution lines. As a part of long range living infrastructure reconditioning program several parks will be addressed. Goodwin Park has been identified for replacement of living infrastructure and redesign of irrigation system in 2015-16. As budget allows, projects for 2016/17 through 2018/19 include:

- Irrigation modifications and replacement at Harelson Park, Indian Bend Habitat, Tempe Center for the Arts Park and Ehrhardt Park
- Tree replacement and addition at Harelson Park, Daley Park, Indian Bend Habitat and Rio Salado Park
- Compost addition of 20 acres per year at various parks

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$100,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$100,000

Project Number: 6305999

Estimated Start Date: 07/01/2014

Estimated Completion Date: Ongoing

2014-15 Source of Funds

General Obligation Bonds \$100,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$100,000	\$75,000	\$130,000	\$70,000	\$50,000	\$425,000

Skate Park Structural Repairs



Project Description

This project provides for the ongoing annual specialized capital repairs to the City's three (3) skate parks. Repairs will include concrete, coping, grind edges, modular surface replacements, etc. To keep our skate parks in a safe condition for the users, damages need to be repaired on a timely basis.

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$27,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$27,000

Project Number: 6302629

Estimated Start Date: 07/01/2006

Estimated Completion Date: Ongoing

2014-15 Source of Funds

General Obligation Bonds \$27,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$27,000	\$15,000	\$15,000	\$15,000	\$15,000	\$87,000

Sports Facility Relamping



Project Description

This project provides for the continued funding of a regular relamping program for our sports facilities' lighting systems. It established a regular cycle of relamping and cleaning of light fixtures at all softball/baseball fields, soccer fields, swimming pools and tennis courts. Without this project the light levels at these sports facilities declines, and exposes the City to unnecessary liability & risk.

2016-17 - (\$25,000) Papago Ballfield (\$3,000); Diablo Soccer Field (\$4,000); Mckemy Ballfields (\$5,000); Corona High Tennis (\$3,000); Escalante Pool (\$2,000); Connolly Ballfields (\$5,000); Tempe Beach Ballfield (\$3,000).

2017-18 - (\$55,000) Tempe Sports Complex (\$50,000); Harelson Tennis (\$1,500); Indian Bend Tennis (\$1,500) McClintock Pool (\$2,000).

2018 -19 - (\$20,000) Jaycee Ballfield (\$4,000); Clark Ballfield (\$3,000); Tempe High Tennis (\$3,000); McClintock High Tennis (\$3,000); Marcos de Niza Tennis (\$3,000); Clark Pool/Garden (\$1,500); Unplanned Relamping (\$2,500).

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$5,000

Total \$5,000

Project Number: 6306938

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2014-15 Source of Funds

Capital Projects Fund Balance \$5,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$5,000	\$0	\$25,000	\$55,000	\$20,000	\$105,000

Tempe Beach Splash Playground Modification



Project Description

The splash playground opened in 2002 and was designed to entertain and accommodate 20-25,000 participants per year. Ten years later our participation averages between 50-60,000 visitors a year. This has resulted in extensive wear and tear on the physical structures. Several play pieces have been removed because they were no longer functional or didn't meet safety/health standards. This project will replace worn out equipment and address an on-going health and safety issue related to the hill & slide area. The project will consist of the following:

- Replacement of filtration/circulation system - \$35,000
- Demolition & re-grading of the hill/slide area - \$50,000 (This area has been a long standing health & safety issue)
- Items to replace the hill area - \$55,000 (Items would include new play features, shade, and landscaping.)
- Decking & refurbishment of the existing deck - \$55,000

2014-15 Source of Funds

Capital Projects Fund Balance	\$240,000
General Obligation Bonds	\$25,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$265,000	\$0	\$0	\$0	\$0	\$265,000

Estimated 2014-15 Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$6,000
Design and Engineering	\$25,000
Survey / Staking	\$2,000
Construction Management	\$14,000
Furnishings / Equipment	\$0
Construction / Improvement	\$195,000
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$19,000

Total \$265,000

Project Number: 6506931

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2015

Town Lake Dam Replacement



Project Description

Based on the contractual agreement between the City and Bridgestone, the temporary rubber bladders west dam of the Tempe Town Lake must be replaced by the City by the end of December, 2015. In July of 2011, the City initiated a project to select, design and construct the "best - value" solution for replacement of the Tempe Town Lake downstream dam. In January 2012, the City selected a hydraulically operated steel gate to replace the existing rubber bladders. Since then, the contracted engineer has reached 90 percent completion of steel gate dam design. The construction is anticipated to start in the first half of 2014.

2014-15 Source of Funds

Capital Projects Fund Balance	\$3,176,913
CIP Reserve & Debt Service Fund	\$3,400,000
General Obligation Bonds	\$32,161,851

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$38,738,764	\$0	\$0	\$0	\$0	\$38,738,764

Estimated 2014-15 Project Costs

Legal / Administration	\$286,000
Land Acquisition	\$0
Permit Fees	\$600,000
Design and Engineering	\$2,887,094
Survey / Staking	\$753,001
Construction Management	\$1,582,000
Furnishings / Equipment	\$12,210,778
Construction / Improvement	\$19,889,301
Geotech / Material Testing	\$330,590
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$200,000

Total \$38,738,764

Project Number: 6504229

Estimated Start Date: 07/01/2011

Estimated Completion Date: 12/31/2015

Town Lake Emergency Warning Modifications



Project Description

This project involves the expansion of the warning capabilities (including lights, siren, and PA system) downstream of the west dam. The improvements include an automatic evacuation warning for the lake and real-time access to system notifications currently monitored by the Salt River Project. The design for this project is completed. Installation will follow.

The purpose of this project is to advise recreational users of Tempe Town Lake of circumstances that could impact their safety.

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$16,349
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$16,349

Project Number: 6503771

Estimated Start Date: Ongoing

Estimated Completion Date: 12/30/2014

2014-15 Source of Funds

Capital Projects Fund Balance \$16,349

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$16,349	\$0	\$0	\$0	\$0	\$16,349

General Governmental Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget	New 2014-15	2014-15 Total	Additional Projected Needs				Total 5-Year
		Re-appropriations	Appropriations	Appropriations	2015-16	2016-17	2017-18	2018-19	Program
City Court									
Court Improvement Project - Court Facility: 6705139	General Obligation Bonds	446,864	-	446,864	254,300	-	-	-	701,164
Court Improvement Project - Court Technology: 6707289	Capital Improvements Reserve	-	29,800	29,800	17,750	31,550	3,900	4,400	87,400
City Court Total		446,864	29,800	476,664	272,050	31,550	3,900	4,400	788,564
City Manager									
Downtown Area Parking and City Facilities Space Optimization Study: 6707217	Capital Projects Fund Balance	-	120,000	120,000	-	-	-	-	120,000
Community Development									
City Hall Parking Garage: 6702979	Capital Improvements Reserve	-	297,500	297,500	-	-	-	-	297,500
Eisendrath House: 6703479	Capital Projects Fund Balance	10,919	-	10,919	-	-	-	-	10,919
Community Development Total		10,919	297,500	308,419	-	-	-	-	308,419
Community Services									
Call Center CRM System: 6704109	Capital Projects Fund Balance	40,651	-	40,651	-	-	-	-	40,651
Municipal Arts Program: 6699799	Municipal Arts Fund	310,359	417,396	727,754	-	-	-	-	727,754
	Water / Wastewater Fund	-	175,245	175,246	-	-	-	-	175,246
	Project Total	310,359	592,641	903,000	-	-	-	-	903,000
Tempe Public Library RFID Conversion: 6706029	General Obligation Bonds	200,000	-	200,000	-	-	-	-	200,000
Community Services Total		551,010	592,641	1,143,651	-	-	-	-	1,143,651

2014-15 CIP Projects - General Governmental Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget	New 2014-15	2014-15 Total	Additional Projected Needs				Total 5-Year
		Re-appropriations	Appropriations	Appropriations	2015-16	2016-17	2017-18	2018-19	Program
Finance and Technology									
Core Network Replacement: NA	G.O. Bonds Election Required	-	-	-	-	-	555,349	392,775	948,124
Desktop Technology Refresh - Green Initiative: 6707229	Capital Projects Fund Balance	-	250,000	250,000	-	-	-	-	250,000
	General Obligation Bonds	-	-	-	300,000	-	-	-	300,000
	G.O. Bonds Election Required	-	-	-	-	253,990	477,480	170,240	901,710
	Transit Tax	-	-	-	23,710	23,710	-	-	47,420
	Water / Wastewater Fund	-	120,830	120,830	-	-	-	77,280	198,110
	Project Total	-	370,830	370,830	323,710	277,700	477,480	247,520	1,697,240
Enterprise Network File Storage and Archival: 6709239	Capital Projects Fund Balance	-	125,000	125,000	-	-	-	-	125,000
	General Obligation Bonds	-	-	-	125,000	-	-	-	125,000
	G.O. Bonds Election Required	-	-	-	-	191,211	-	-	191,211
	Project Total	-	125,000	125,000	125,000	191,211	-	-	441,211
Permits Plus Upgrade: 6709219	General Obligation Bonds	542,794	-	542,794	-	-	-	-	542,794
Finance and Technology Total		542,794	495,830	1,038,624	448,710	468,911	1,032,829	640,295	3,629,369
Public Works									
ADA Accessibility Survey and Transition Plan: 6706249	Capital Projects Fund Balance	170,000	78,603	248,603	-	-	-	-	248,603
	Transit Tax	30,000	-	30,000	-	-	-	-	30,000
	Project Total	200,000	78,603	278,603	-	-	-	-	278,603
City Hall HVAC Piping Replacement: 6705629	General Obligation Bonds	1,624,675	-	1,624,675	200,000	-	-	-	1,824,675
	G.O. Bonds Election Required	-	-	-	-	1,420,000	-	-	1,420,000
	Project Total	1,624,675	-	1,624,675	200,000	1,420,000	-	-	3,244,675
City Hall Primary Electrical Service Entry: 6707230	General Obligation Bonds	-	700,000	700,000	-	-	-	-	700,000
Downtown Infrastructure: 6704329	Capital Projects Fund Balance	-	30,000	30,000	-	-	-	-	30,000
	General Obligation Bonds	114,397	-	114,397	31,050	-	-	-	145,447
	G.O. Bonds Election Required	-	-	-	-	32,137	33,262	34,426	99,824
	Project Total	114,397	30,000	144,397	31,050	32,137	33,262	34,426	275,271

2014-15 CIP Projects - General Governmental Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Drainage Improvements: NA	G.O. Bonds Election Required	-	-	-	-	-	-	365,000	365,000
Electrical Improvements: 6705159	Capital Improvements Reserve	-	50,000	50,000	-	-	-	-	50,000
	General Obligation Bonds	297,060	-	297,060	50,000	-	-	-	347,060
	G.O. Bonds Election Required	-	-	-	-	370,000	555,000	190,000	1,115,000
	Project Total	297,060	50,000	347,060	50,000	370,000	555,000	190,000	1,512,060
Emergency Capital Repair: 6799779	Capital Projects Fund Balance	-	100,000	100,000	-	-	-	-	100,000
	General Obligation Bonds	400,000	-	400,000	100,000	-	-	-	500,000
	G.O. Bonds Election Required	-	-	-	-	100,000	100,000	100,000	300,000
	Project Total	400,000	100,000	500,000	100,000	100,000	100,000	100,000	900,000
Energy Conservation Program: 6705179	Capital Projects Fund Balance	24,000	80,000	104,000	-	-	-	-	104,000
	General Obligation Bonds	-	-	-	65,000	-	-	-	65,000
	G.O. Bonds Election Required	-	-	-	-	65,000	-	50,000	115,000
	Project Total	24,000	80,000	104,000	65,000	65,000	-	50,000	284,000
Fleet Maintenance Improvements: 6705189	Solid Waste Fund	75,000	97,000	172,000	-	-	-	-	172,000
Flooring Replacement Program: 6705199	General Obligation Bonds	99,776	100,000	199,776	100,000	-	-	-	299,776
	G.O. Bonds Election Required	-	-	-	-	117,000	55,000	179,000	351,000
	Project Total	99,776	100,000	199,776	100,000	117,000	55,000	179,000	650,776
Fuel Metering Project: 6705209	Capital Improvements Reserve	-	25,000	25,000	-	-	-	-	25,000
Historic Properties: 676809	Capital Projects Fund Balance	10,429	-	10,429	-	-	-	-	10,429
	General Obligation Bonds	-	50,000	50,000	50,000	-	-	-	100,000
	G.O. Bonds Election Required	-	-	-	-	87,000	85,000	80,000	252,000
	Project Total	10,429	50,000	60,429	50,000	87,000	85,000	80,000	362,429
HVAC Replacements: 6706873	Debt Service Fund	-	1,000,000	1,000,000	-	-	-	-	1,000,000
	General Obligation Bonds	130,421	-	130,421	1,000,000	-	-	-	1,130,421
	G.O. Bonds Election Required	-	-	-	-	1,541,000	2,059,000	1,447,500	5,047,500
	Project Total	130,421	1,000,000	1,130,421	1,000,000	1,541,000	2,059,000	1,447,500	7,177,921
Police Department Piping Replacement: NA	General Obligation Bonds	-	-	-	1,500,000	-	-	-	1,500,000

2014-15 CIP Projects - General Governmental Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
Roof Replacement: 6702519	General Obligation Bonds	14,036	517,000	531,036	300,000	-	-	-	831,036
	G.O. Bonds Election Required	-	-	-	-	1,128,000	790,000	597,000	2,515,000
	Project Total	14,036	517,000	531,036	300,000	1,128,000	790,000	597,000	3,346,036
Security System Replacement: NA	G.O. Bonds Election Required	-	-	-	-	-	200,000	210,000	410,000
Tempe Center for the Arts Pool Resurfacing: 6707249	Performing Arts Fund	-	100,000	100,000	-	-	-	-	100,000
Tempe Fire Training Facility: 6705219	General Obligation Bonds	257,679	-	257,679	-	-	-	-	257,679
Water Heater Replacement Program: 6705229	Capital Improvements Reserve	-	19,000	19,000	-	-	-	-	19,000
	General Obligation Bonds	66,125	-	66,125	57,200	-	-	-	123,325
	G.O. Bonds Election Required	-	-	-	-	71,500	133,000	-	204,500
	Project Total	66,125	19,000	85,125	57,200	71,500	133,000	-	346,825
Public Works Total		3,313,598	2,946,603	6,260,201	3,453,250	4,931,637	4,010,262	3,252,926	21,908,275
General Governmental Program Total		4,865,184	4,482,374	9,347,558	4,174,010	5,432,098	5,046,991	3,897,621	27,898,278

Court Improvement Project - Court Facility



Project Description

This project supports ongoing efforts to preserve and improve an important City asset, the Court building. It includes improving the functionality of the Court facility by replacing counters, cabinets, fixtures and furniture in jury rooms, restrooms, break rooms, and courtrooms, to better serve the public. The project also entails reconfiguring workspace, workstations, and furniture, to provide a professional environment for Court business while improving operational efficiency.

Fiscal year 14-15 is the 3rd year of Court facility preservation project. Previous projects include painting, reconfiguring the security checkpoint, and replacing damaged/missing tile, stained/worn carpeting, public counters, and torn/soiled lobby seating.

2014-15 Source of Funds

General Obligation Bonds	\$446,864
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$724
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$407,852
Construction / Improvement	\$38,288
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$446,864
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Project Number: 6705139

Estimated Start Date: 07/01/2014

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$446,864	\$254,300	\$0	\$0	\$0	\$701,164

Court Improvement Project - Court Technology



Project Description

This project supports ongoing efforts to preserve and improve City assets. It includes refreshing Court technology, including lap top computers, printers, server, conference phones, calendar display system, scanners, and high-volume shredders. It also includes systems to present evidence in court proceedings, and to support efficient and effective court operations.

This is the 1st year of Court technology projects. This project provides the technology infrastructure to support public service, improve efficiency and effectiveness, and limit operational impacts of failing systems.

2014-15 Source of Funds

Capital Improvements Reserve	\$29,800
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$4,350
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$25,450
Other Project Costs	\$0

Total	\$29,800
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Project Number: Need New

Estimated Start Date: 07/01/2014

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$29,800	\$17,750	\$31,550	\$3,900	\$4,400	\$87,400

Downtown Area Parking and City Facilities Space Optimization Study



Project Description

This project entails hiring a consultant to evaluate The City of Tempe's current downtown area parking and city facility space utilization in order to identify options and strategies for achieving the highest and best use for these spaces, as well as potential additional space. This would include strategies to enhance or expand parking options downtown.

2014-15 Source of Funds

Capital Projects Fund Balance	\$120,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$120,000
Total	\$120,000

Project Number: 6707217

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$120,000	\$0	\$0	\$0	\$0	\$120,000

City Hall Parking Garage



Project Description

This project will be used to make improvements to the remaining leasable tenant space on first and second floors of the City Hall Garage. The funds will likely be used to fund items such as: flooring, office cabinetry, demising walls, air conditioning vent/ductwork, fire protection sprinklers, etc. This amount of tenant improvement funding is consistent with other comparable commercial tenant space.

The tenant improvements are needed to render the space "leasable". The 9,500 s.f. leasable space is currently in the design phase (mechanical, plumbing and electrical) stage presently. Improvements that will be constructed with planned completion of July 2014 will bring the space to "white" shell condition: restrooms, plumbing, electrical service panel, and HVAC installation.

2014-15 Source of Funds

Capital Improvements Reserve	\$297,500
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Estimated 2014-15 Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$8,000
Design and Engineering	\$29,000
Survey / Staking	\$2,000
Construction Management	\$17,000
Furnishings / Equipment	\$0
Construction / Improvement	\$237,500
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$297,500

Project Number: 6702979

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$297,500	\$0	\$0	\$0	\$0	\$297,500

Eisendrath House



Project Description

Remaining project funding will be used to Partner with the Rio Salado Foundation, including public, private and corporate donors, to complete rehabilitation of the historic Eisendrath House. This completed facility is widely anticipated to be a valuable community asset and the "flagship" for the Carl Hayden Campus for Sustainability. It includes meeting, exhibit, office and event space. The project has been designed as a showpiece of energy and water conservation, as well as ADA accessibility, and is expected to achieve a LEED Gold or Silver rating. The expected life of the Eisendrath House is 50 years.

Phase 1 has been completed, including the following:

- New meeting building (SRP Center for Water Education) with associated kitchen, storage and ADA-accessible restrooms
- Improvements to the historic house, including all necessary structural repairs, installation of most mechanical, electrical and plumbing lines and some equipment, window and door repairs, roof replacement, adobe/stucco repair and paint (original "dusty rose" color).
- All utility connections, access drive, ramps/railings, retaining walls and site lighting.

2014-15 Source of Funds

Capital Projects Fund Balance \$10,919

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$5,000
Construction / Improvement	\$5,919
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$10,919

Project Number: 6703479

Estimated Start Date: 07/01/2013

Estimated Completion Date: 12/31/2014

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$10,919	\$0	\$0	\$0	\$0	\$10,919

Call Center CRM System



Project Description

Continued project funding in FY 2014-15 will finalize implementation of Tempe's Citizen Request Management (CRM/311) system. The web-based enterprise system is a technological tool that is used by the city's Customer Relations Center (CRC) to serve Tempe as a central connection for easily accessible information and government services. The CRM system enables CRC staff to provide consistent and accurate information or enter a service request into the system, where it will then be automatically routed to the proper location in the city. It introduces "business rules" that govern each service request type and promotes consistency in the way operations are performed. The system also has a robust knowledge base that serves as a central repository for accurately answering questions. Finally, the CRM system allows the city to track and report on how services are being delivered to citizens.

2014-15 Source of Funds

Capital Projects Fund Balance \$40,651

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$40,651
Other Project Costs	\$0

Total \$40,651

Project Number: 6704109

Estimated Start Date: 08/01/2010

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$40,651	\$0	\$0	\$0	\$0	\$40,651

Municipal Arts Fund



Project Description

The project funds the city's cultural improvements and programs to create an atmosphere in which the arts can flourish and inspire Tempe residents to recognize the arts as essential to the whole life of our community. The programs and the associated anticipated expenditures for FY 14-15 include:

Public Art projects and staff \$220,000, Broadway Road Streetscape Public Art \$70,000; platFORM Public Art at Hayden Flour Mill \$8,000; El Paso Gas Line Path Public Art \$24,000, University Drive Streetscap \$4,000; Public Art Maintenance \$75,000; IN FLUX Initiative Public Art \$14,000; Grants to Tempe-based arts organizations and schools \$175,000; Special projects including Tempe Symphony, Songwriters' Showcase; Qtrly newsletter \$70,500; Gallery Exhibitions program \$35,000; TPAC equipment maintenance \$3,000; TCA performance series, associated expenses and consultant fees \$150,000; Community Initiative program including Tardeada, Ballet Under the Stars, Music Under the Stars Poetry in April \$34,500; Museum events \$6,000 and; Summer arts instructional programming at Vihel Center \$14,000.

2014-15 Source of Funds

Municipal Arts Fund	\$727,754
Water / Wastewater Fund	\$175,246

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$903,000

Total \$903,000

Project Number: 6699799

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$903,000	\$0	\$0	\$0	\$0	\$903,000

Tempe Public Library RFID Conversion



Project Description

Current library materials (books, DVDs, etc.) and new acquisitions will be affixed with RFID (Radio Frequency Identification) tags. RFID pad readers will be installed at self-service checkout stations and staff service desks. RFID technology will support enhanced customer self-service applications, security, inventory control, and materials circulation systems.

RFID technology has developed into the standard platform for library materials handling. The recent adoption of National Information Standards Organization (NISO) standards for library RFID installations makes this an advantageous time for the Tempe Public Library to upgrade. Conversion to an RFID platform will position the Library to keep up with technological developments in the field.

2014-15 Source of Funds

General Obligation Bonds	\$200,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$200,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$200,000

Project Number: 6706029

Estimated Start Date: 03/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$200,000	\$0	\$0	\$0	\$0	\$200,000

Core Network Replacement



Project Description

This project will replace the enterprise network backbone and associated equipment that is reaching end of service life and support. This would consist of a three year program to replace the existing core Cisco 6500 series switch/routers in the first year and then edge core switches in the major City of Tempe campuses over the remaining two years to maintain system compatibility and performance.

The enterprise network is the backbone utilized to move data and information between computer systems, applications, departments, and people. Our existing core network consists of two Cisco 6500 series enterprise switch/routers. In addition, each system is fiber connected to both switches for full redundancy. Loss of these switches would cause a catastrophic loss of the ability to move data and users would lose connection to their business applications. The Cisco 6500 currently at use at the City of Tempe were purchased in 2004 and upgraded in 2007. Cisco currently projects they will reach end of life in 2015 and end of support in 2016 leaving Tempe vulnerable. A new central core and replacement of the Cisco 6500 is critical to maintaining efficient and effective information flow on the computer network backbone.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 07/01/2017

Estimated Completion Date: 06/30/2020

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$0	\$0	\$555,349	\$392,775	\$948,124

Desktop Technology Refresh - Green Initiative



Project Description

The Desktop Technology Refresh - Green Initiative project is a multi-year effort to replace aging desktop computers across the city organization with more efficient units that support mobile access and consume 60 - 85% less power. Current PC desktop units will be replaced with virtual clients (Zero Clients), or small form PCs where virtualization is not supported. The new devices will allow Departments to leverage current software solutions, as well as, expand technology solutions into the field with mobile access. The first year will include the replacement and virtualization of 130 Public PCs located at the Library and Community Centers.

2014-15 Source of Funds

Capital Projects Fund Balance	\$250,000
Water / Wastewater Fund	\$120,830

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$370,830
Other Project Costs	\$0
Total	\$370,830

Project Number: 6707229

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2020

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$370,830	\$323,710	\$277,700	\$477,480	\$247,520	\$1,697,240

Enterprise Network File Storage and Archival



Project Description

The demand for information storage, archival, and records retention is continually increasing. New technology in "cloud computing" through virtualization has allowed Tempe to use Storage Area Networking (SAN) to share resources across multiple departments and applications. The existing SAN infrastructure is at its physical limitation for space. Recent technology developments in mid-tier storage for virtualization has provided a solution to extend the life of our existing infrastructure at a much reduced cost by offloading non-mission critical storage to a distributed SAN system that places storage near the users, providing fault tolerance to network interruptions and supports desktop virtualization. The existing highly available SAN will continue to support enterprise business functions such as financials, payroll, utility billing, and sales tax collection using the resources gained from the migration of non-mission critical storage to the lower cost mid-tier storage devices.

2014-15 Source of Funds

Capital Projects Fund Balance	\$125,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$125,000
Other Project Costs	\$0
Total	\$125,000

Project Number: 6709239

Estimated Start Date: Ongoing

Estimated Completion Date: 06/30/2017

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$125,000	\$125,000	\$191,211	\$0	\$0	\$441,211

Permits Plus Upgrade



Project Description

This project is an upgrade of the current Permits Plus system to Accela Automation. The current system will be upgraded to an enterprise-wide permitting solution that is citizen-centric and allows information to be shared across departments. Over 170 employees across several City departments require access to this system. These departments include Community Development, Public Works Engineering, Public Works Water Utilities, Police Department, Fire Department, and Community Relations. This system is used to support and manage all aspects of the land development process which includes zoning, permitting, licensing, code enforcement, building, plan reviews, inspections, and fee collections.

The newer technology will support a robust workflow for streamlining the permit approval process. It will automate the application process, the plan reviews, fee calculations and collections, inspection and investigation tasks, and more. Web-based technology will provide 24/7 access for our citizens and employees via the Internet. This functionality will allow our citizens to apply for permits online, submit and track their project plans, attach documents, and make payments over the Internet.

2014-15 Source of Funds

General Obligation Bonds	\$542,794
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$542,794
Other Project Costs	\$0
Total	\$542,794

Project Number: 6709219

Estimated Start Date: 07/01/2013

Estimated Completion Date: 12/31/2014

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$542,794	\$0	\$0	\$0	\$0	\$542,794

ADA Accessibility Survey and Transition Plan



Project Description

In order to bring the City into compliance with ADA standards and meet our obligations to the U.S. Department of Justice, an ADA Transition Plan is required to identify physical barriers in public facilities and recommend methods to remove these barriers. The Transition Plan will include the followings: 1) Accessibility survey of pedestrian rights-of-way using 2010 ADA Standards to include sidewalks, pathways, curb ramps, and signalized intersections for physical condition, slopes, cross-slopes and safety conditions. 2) Accessibility survey all City facilities, including public buildings, city parks and multi-use paths for 2010 ADA compliance. Each survey will include prioritization of all identified non-compliance issues, which will facilitate future CIP and O&M planning for correcting deficiencies and asset preservation.

In 2014-15, funding is being requested for ADA site improvements to the Hayden Flour Mill - \$78,603.

Estimated 2014-15 Project Costs

Legal / Administration	\$1,000
Land Acquisition	\$0
Permit Fees	\$2,000
Design and Engineering	\$0
Survey / Staking	\$1,000
Construction Management	\$5,000
Furnishings / Equipment	\$0
Construction / Improvement	\$68,603
Geotech / Material Testing	\$1,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$200,000

Total \$278,603

Project Number: 6706249

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2015

2014-15 Source of Funds

Capital Projects Fund Balance	\$248,603
Transit Tax	\$30,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$278,603	\$0	\$0	\$0	\$0	\$278,603

City Hall HVAC Piping Replacement



Project Description

This project is Phase II of the City Hall HVAC CIP. Phase I was for the replacement of the underground piping for City Hall cooling and heating systems. This project is to repair and replace, as necessary, the piping within the City Hall heating and cooling system that is installed throughout the building complex. The piping is over thirty years old and has been showing signs of failure, most recently in January of 2013 where the heating was not fully operational for several days. The system was repaired to functionality but full scale repairs or replacement are needed. Temperatures are difficult to maintain in the Garden Level offices and in the upper levels of the pyramid and many of the pipes have reached the end of their design life and are corroded.

The purpose of the project is to maintain the integrity of the heating system within the City Hall complex. Without this repair the heating system will fail. Replacement and repair of the system was previously recommended as a result of an HVAC study, and then again during the recently completed energy retrofits. This project is very important in maintaining our city's assets.

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,624,675
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,624,675

Project Number: 6705629

Estimated Start Date: 12:00:00 AM

Estimated Completion Date: 12:00:00 AM

2014-15 Source of Funds

General Obligation Bonds	\$1,624,675
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,624,675	\$200,000	\$1,420,000	\$0	\$0	\$3,244,675

City Hall Primary Electrical Service Entry



Project Description

This project will fund the design and replacement of the outdated and failing electrical service distribution system serving the City Hall Complex and City Hall Tower. The City Hall municipal building is serviced by a 2000 amp service with distribution panels that range from 800 amps to 400 amps. There are also branch panels that range from 400 amps to 100 amps. The panels were installed in 1970 and have experienced catastrophic failures. In the last year, these panels have shorted out causing electrical disruptions to City Hall. Not only have these failures caused disruptions to our buildings and the services we provide to our customers, but have created an unsafe condition.

These electrical distribution systems need to be replaced due to the failures and knowing that these units are over 40 years old. The average useful life for related equipment is 20 years. By replacing this outdated system, we will ensure asset preservation to our older facilities and ensure continued reliability of the electrical system. The upgrade will ensure that the newly designed system will meet today's standard of electrical needs.

2014-15 Source of Funds

General Obligation Bonds	\$700,000
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$700,000	\$0	\$0	\$0	\$0	\$700,000

Estimated 2014-15 Project Costs

Legal / Administration	\$6,000
Land Acquisition	\$0
Permit Fees	\$20,000
Design and Engineering	\$67,000
Survey / Staking	\$6,000
Construction Management	\$39,000
Furnishings / Equipment	\$0
Construction / Improvement	\$556,000
Geotech / Material Testing	\$6,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$700,000
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Project Number: 6707230

Estimated Start Date: 07/01/2014

Estimated Completion Date: 07/01/2015

Downtown Infrastructure



Project Description

This project is for the purpose of updating Tempe's inventory of furnishings and infrastructure in the Mill Avenue district which may include improvements and refurbishing of brick sidewalks, street furniture, replacing trees along Mill Avenue and small enhancements identified in the Project for Public Spaces (PPS) analysis. This project also is the funding source for the City's commitments as identified in the Hospitality Zone Assessment project, a joint effort between the City and Mill Avenue District to improve the economic viability of the downtown. This project will help ensure pedestrian safety and maintain the physical assets in the downtown area. The combination of the day-to-day use of the pedestrian right-of-way as well as the special events held on Mill Avenue, necessitate the need to replace and repair the improvements. Those improvements have been in place approximately 25 years.

In 2014-15, this project will fund, as budget allows: Hospitality Zone improvements: literature racks and portable restrooms (\$70,000); Completion of the electrical receptacle project on Mill Ave. (\$50,000); and Mill Avenue street furnishings replacements as needed (\$25,000).

In Fys 2015-16 through 2018-19, replacement of Mill Avenue street furnishings is estimated at \$30,000 per year.

2014-15 Source of Funds

Capital Projects Fund Balance	\$30,000
General Obligation Bonds	\$114,397

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$144,397	\$31,050	\$32,137	\$33,262	\$34,426	\$275,271

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$144,397

Total	\$144,397
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Project Number: 6304329

Estimated Start Date: 07/01/2012

Estimated Completion Date: ongoing

Drainage Improvements



Project Description

City staff has identified three city facilities that are in need of having drainage improvements made to them. This project is to change the slope around the existing facilities. The current slope results in the water drainage going into the buildings. By correcting, when we receive significant rainfall the slope will eliminate flooding in buildings and prevent further damage to the facilities.

This project will ensure that the three city facilities listed below are preserved and the potential for flooding into the facilities is stopped.

2018-2019 Projects:
Diablo Stadium (\$75,000)
PD Horse Barn (\$36,000)
Museum (\$180,000)

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 07/01/2014

Estimated Completion Date: 12:00:00 AM

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$0	\$0	\$0	\$365,000	\$365,000

Electrical Improvements



Project Description

This project will provide funding to rectify deficiencies such as: replacement of damaged electrical panel, missing labels, replacement of enclosure doors, and replace conductors that are not properly sized. This project will complete deficiencies identified in the ARC Flash Hazard Analysis.

Fiscal year 2014-2015: Design work of main PD generator replacement and emergency repairs (\$50,000).

Fiscal year 2015-2019 as funding permits: Main PD generator replacement (\$300,000), Priest yard main service entrance section (\$350,000), North yard service generator and ATS (\$75,000), Kiwanis recreation building main entrance section with MCC (\$250,000), 400 amp secondary service that controls the tennis courts (\$50,000), McClintock pool service entrance section and MCC (\$70,000), Fire station #4 service entrance section (\$50,000), Police substation at 10 W Guadalupe (\$25,000), Fire Training service entrance section (80,000), Fire station #2 service entrance section, old fire maintenance service entrance section (\$60,000), Generator and ATS (\$50,000), Branch panels (\$30,000), and Fire station #5 service entrance section (\$50,000).

2014-15 Source of Funds

Capital Improvements Reserve	\$50,000
General Obligation Bonds	\$297,060

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$347,060
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$347,060

Project Number: 6705159

Estimated Start Date: 12:00:00 AM

Estimated Completion Date: 12:00:00 AM

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$347,060	\$50,000	\$370,000	\$555,000	\$190,000	\$1,512,060

Emergency Capital Repair



Project Description

Tempe maintains 96 buildings covering 1.6 million square feet. Each year the city experiences some unplanned and emergency repair needs. This project provides funding for these types of unplanned occurrences, including storm-related damage, sewer back-ups, fire damage, flooding and electrical emergencies.

The purpose of this project is to maintain public facilities and buildings. Continued funding for repair and replacement of faulty equipment and infrastructures allows for the city to have facilities that operate in a safe manner, efficient to operate and provides basic repairs that if not made could increase future costs of repairs. Planned maintenance extends the life of equipment and systems therefore reducing costly repairs and building closures. The following is planned for 2014-2019 as budget allows:

Museum- security lighting (\$20,000), Kiwanis Pool/Gym lighting (\$2,000), Westside Multi-Generational Center window options (\$15,000), New locks in the Jail cells (\$70,000), Apache PD new gate operators (\$30,000), Fire Station 3 doors, Fire Station #1 remove and replace concrete (\$35,000) and Field Operations gate, card access for gate, front office doors and Solid Waste building (\$45,000).

2014-15 Source of Funds

Capital Projects Fund Balance	\$100,000
General Obligation Bonds	\$400,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$500,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$500,000

Project Number: 6799779

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$500,000	\$100,000	\$100,000	\$100,000	\$100,000	\$900,000

Energy Conservation Program



Project Description

The overall goal of the City's Energy Management Program is to reduce energy use and utility costs in city facilities by 15% by 2015. To accomplish this, staff will continue to focus on a number of strategies including: renewable energy projects at city facilities, a second phase of energy audits and retrofits and facilitating a culture of conservation. This project will focus on these three areas. Staff will work with the utilities to review and audit city facility needs and determine where we can achieve sustainable savings in utility costs.

Staff will replace substandard and inefficient lighting systems (replacing T-12s with T-8 or T-5 or LED upgrades) and add programmable thermostats. Fiscal year 2014-15 funds will be used: to conduct retrofits at the Kiwanis Recreation Center and the golf courses (\$55,000) and for consultant services to evaluate energy efficiency projects and perform a second phase energy audit (\$25,000).

2014-15 Source of Funds

Capital Projects Fund Balance	\$104,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$24,000
Construction / Improvement	\$55,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$25,000

Total \$104,000

Project Number: 6705179

Estimated Start Date: 07/01/2014

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$104,000	\$65,000	\$65,000	\$0	\$50,000	\$284,000

Fleet Maintenance Improvements



Project Description

The project consists of expanding the CNG fueling system at the East Valley Bus Operations and Maintenance (EVBOM) facility to include 2 CNG dispensers to be located at the Public Works Fueling Facility. The City is expanding the existing CNG facility at EVBOM to accommodate the new regional buses being operated at the facility.

The CNG dispensers will be equipped with two-hoses, each with a heavy duty hose and nozzle, a light duty hose and nozzle, and one meter and automatic PLC-controlled flow-balancing valves. The light duty hose will allow the city to fuel future CNG equipment.

The city has purchased 5 CNG fueled solid waste disposal trucks.

CNG fuel emissions are friendlier to the environment than traditional fossil fuels. The cost of a gallon of CNG fuel equivalent can be as low as \$0.42. Significant cost savings can be realized if the City expands the current fleet. This project would allow for long term access for Public Works to this CNG fuel.

2014-15 Source of Funds

Solid Waste Fund	\$172,000
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$172,000	\$0	\$0	\$0	\$0	\$172,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$10,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$75,000
Construction / Improvement	\$87,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$172,000
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Project Number: 6705189

Estimated Start Date: 01/01/2013

Estimated Completion Date: Ongoing

Flooring Replacement Program



Project Description

The City maintains flooring ranging from tile to carpet to hardwood finishes with an estimated replacement value of \$15 million. Flooring has an expected useful life of 10 years. This project provides for the systematic replacement of worn flooring. The annual reinvestment target for flooring is \$1.25 million. Future flooring replacement needs will be in the following locations:

2014-15: Pyle Center (\$85,000) and Fire Station #3 (\$15,000)

2015-16: City Council Chambers (\$100,000)

2016-17: Performing Arts (\$75,000), Rolling Hills Maintenance (\$10,000), Ken McDonald Maintenance (\$10,000) and Fire Maintenance (\$22,000)

2017-18: Carpet Garden Level (\$55,000)

2018-19: Kiwanis restroom flooring (\$70,000), Westside Multi Center (\$70,000), Fire Training (\$39,000)

2014-15 Source of Funds

General Obligation Bonds	\$199,776
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$199,776	\$100,000	\$117,000	\$55,000	\$179,000	\$650,776

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$199,776
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$199,776
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Project Number: 6705199

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Fuel Metering Project



Project Description

This project continues the installation of automated fuel management systems at unmetered fueling sites and connection to the City's fuel network. At the start of the project 7 of the 10 fuel sites were unmetered. 2014-15 is the final digital meter installation at the last unmetered fuel site in the city (Priest Yard.)

Unmetered sites have poor tracking of actual fuel usage and account for as much as 10% shrinkage in the overall city's fuel budget, resulting in an inaccurate O&M cost for a vehicle. This project will complete the metering of all sites.

2014-15 Source of Funds

Capital Improvements Reserve	\$25,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$25,000
Total	\$25,000

Project Number: 6705209

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$25,000	\$0	\$0	\$0	\$0	\$25,000

Historic Properties



Project Description

The City has 7 buildings designated as historic properties and these buildings have an average age of 100 years. This project funds the rehabilitation and repair of aging historic facilities, infrastructure and systems. The scope of the rehabilitation includes infrastructure systems, roofing repairs/replacements, floor covering, painting, security lighting, repairs/upgrades of building automation systems, fire alarms and damaged equipment. By funding this CIP, the City will be able to continue to preserve and maintain our historic property assets. These structures are important to our city and require special attention. The following projects are planned for fiscal years 2014-2019 as budget allows:

Peterson House fire alarm system (\$30,000), Peterson House porch wood repair and paint (\$8,000), Hackett House concrete patio repairs (\$10,000), Elias Rodriguez House painting (\$8,000), Peterson House fence painting (\$3,000), Benjamin Moer House painting (\$5,000), Elias Rodriguez fire retardant roof coating (\$10,000), Hackett House painting (\$12,000), Peterson House painting (\$20,000), Hackett House (\$15,000), Hackett House fire retardant roof coating (\$10,000), Flour Mill window repair and painting (\$15,000 per FY) and emergency repair of all historical buildings (\$30,000 per FY).

2014-15 Source of Funds

Capital Projects Fund Balance	\$10,429
General Obligation Bonds	\$50,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$60,429
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$60,429

Project Number: 676809

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$60,429	\$50,000	\$87,000	\$85,000	\$80,000	\$362,429

HVAC Replacements



Project Description

Tempe maintains nearly 400 air conditioning, heat pump and split system units with an expected useful life of 12 years. The COMET Asset Management System has identified a replacement cost over the next 10 years as \$8.4 million, with higher replacement costs in the first five years, at an average of \$1.5 million per year. HVAC systems account for approximately 30% of the electrical bill. By replacing older and inefficient units with more efficient units, the City saves in electricity expenditures, reduces time and labor in repair needs, and reduces our carbon footprint.

In fiscal years 2014-17, the following locations have units that need to be replaced: Apache PDP (\$8,000), Priest Yard (\$5,500), Fire Station #2 (\$49,000), Fire Station #4 (\$18,000), Fire Station #5 (\$17,000), Parking Garage (\$19,000), Ken McDonald Rest. (\$5,000), Hardy (\$2,100), PD Horse Coral (\$9,000), Library (\$1,500,000), McClintock Pool House (\$16,000), Municipal bldg. (\$455,000), Priest Yard- trailers (\$12,000), Priest Yard- Assembly Hall (\$16,000), Rolling Hills Proshop (\$10,000), Traffic Maint. (\$10,000) and Westside Multi Center (\$2,000).

2014-15 Source of Funds

Debt Service Fund	\$1,000,000
General Obligation Bonds	\$130,421

Estimated 2014-15 Project Costs

Legal / Administration	\$8,000
Land Acquisition	\$0
Permit Fees	\$28,000
Design and Engineering	\$96,000
Survey / Staking	\$8,000
Construction Management	\$56,000
Furnishings / Equipment	\$0
Construction / Improvement	\$926,421
Geotech / Material Testing	\$8,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,130,421

Project Number: 6706873

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,130,421	\$1,000,000	\$1,541,000	\$2,059,000	\$1,447,500	\$7,177,921

Police Department Piping Replacement



Project Description

The City of Tempe Police Department and Courts building was built in the 1970's. The building continues to need modifications to ensure that as this building continues to age, the systems are updated and assets are preserved. This project will design and replace failing piping throughout the building. Staff is bringing in an expert to further investigate and analyze solutions to replace the piping.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$0

Project Number: NA

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$1,500,000	\$0	\$0	\$0	\$1,500,000

Roof Replacement



Project Description

Tempe maintains 96 buildings covering 1.6 million square feet. The COMET Asset Management System has identified a replacement cost over the next 10 years as \$6.8 million. This CIP will fund an average annual replacement of \$680,000. The following projects are planned for the respective future fiscal years:
 2014-15- City Hall Municipal Complex (\$250,000), City Hall Pyramid (\$150,000), Fire Station #6 (\$100,000) and Police-South Hardy (\$17,000).
 2015-16- Escalante (\$150,000), and Hardy Maint. Gravel surface (\$150,000).
 2016-17- McClintock Pool (\$60,000), Fire Station #1 (\$50,000), Police Tac Room (\$10,000),
 Kiwanis Boat House, Batting Cages, Concessions and Tennis Courts (\$80,000), Priest Yard all bldgs. (\$500,000) and Tempe Performing Arts Center (\$100,000).
 2017-18- Parks restrooms (\$100,000), Household Products bldg. (\$60,000), South Vehicle Maintenance Yard (\$60,000), Fire Training Facility (\$80,000), PD Apache Substation (\$180,000), PD Apache Evidence bldg. (\$100,000) and Hardy Maint. Smooth coat (\$50,000).
 2018-19- Traffic Maintenance @ Rio Salado (\$100,000), Hardy/Warner Concession and Restrooms (\$80,000), Museum (\$200,000), Police South Substation @ Kiwanis (\$70,000), and West Dam Roof (\$25,000).

2014-15 Source of Funds

General Obligation Bonds	\$531,036
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Estimated 2014-15 Project Costs

Legal / Administration	\$4,000
Land Acquisition	\$0
Permit Fees	\$15,000
Design and Engineering	\$49,000
Survey / Staking	\$4,000
Construction Management	\$29,000
Furnishings / Equipment	\$0
Construction / Improvement	\$426,036
Geotech / Material Testing	\$4,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$531,036
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Project Number: 6702519

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$531,036	\$300,000	\$1,128,000	\$790,000	\$597,000	\$3,346,036

Security System Replacement



Project Description

The City of Tempe maintains special systems throughout city facilities, which include: full motion video security, card access, building alarms, environmental and energy management controls, and fire alarm/extinguishing systems. To allow for continued operation of these systems, replacements and updates are imperative and are planned for the next 5 years based on the equipment lifecycle. The useful life of these systems range from 10 years on security and surveillance systems to 25 years on sprinkler systems.

In fiscal years 2017-19 the following systems will be replaced as budget allows: Video Systems, Access Systems, Security Systems, Environmental Controls and Fire Systems.

Replacement of these systems as relevant are planned for the following City facilities within the next five years: Apache P.D., North side Multi-Generational, Tempe Center for the Arts, Traffic Operations, Tempe Adult Day Care, McClintock Pool, Diablo Stadium, Kiwanis Recreation Center, Ken McDonald Golf Course, Rolling Hills Golf Course, BB Moeur House, Tempe Butte, Escalante Center, City Hall, 525 Building.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$0
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Project Number: NA

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$0	\$0	\$200,000	\$210,000	\$410,000

Tempe Center for the Arts Pool Resurfacing



Project Description

The Tempe Center for the Arts reflecting pool was installed in 2007 and has not had any refurbishment since the original installation. The top surface is blistering and flaking over the entire surface area (approx. 23,000 square feet).

This project will restore the deteriorating condition of the pool by stripping the top surface of the pool and return trench, preparing all surfaces and applying two separate layers of membrane.

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$100,000

Total \$100,000

Project Number: 6707249

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

2014-15 Source of Funds

Performing Arts Fund \$100,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$100,000	\$0	\$0	\$0	\$0	\$100,000

Tempe Fire Training Facility



Project Description

The campus of the Tempe Fire Training Center at 1342 E University Ave houses a 150 foot antenna tower necessary for police and fire communications. The purpose of the project is to protect the communications tower, building, and equipment from flooding caused by large storm events. During some of the heavier rain storms, the retained storm water in the adjacent basin has come very close to flooding the generator, and electronic equipment building at the base of the tower. Design is currently underway to add an emergency overflow outlet via a storm drain for the existing retention basin, and a vestibule to the front of the tower building to protect the interior equipment from any rain water intrusion through the entry doors. A waterproofing substance will also be applied to the existing exterior building walls so that high water cannot seep into the building. ADA access the entry doors will be brought into compliance.

Estimated 2014-15 Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$8,000
Design and Engineering	\$0
Survey / Staking	\$2,000
Construction Management	\$5,679
Furnishings / Equipment	\$0
Construction / Improvement	\$238,000
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$257,679

Project Number: 6705219

Estimated Start Date: 01/30/2013

Estimated Completion Date: 08/31/2014

2014-15 Source of Funds

General Obligation Bonds \$257,679

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$257,679	\$0	\$0	\$0	\$0	\$257,679

Water Heater Replacement Program



Project Description

The City maintains 166 water heaters with an expected useful life of seven years. This project will replace the following:

Fiscal year 2014-2015 PD parking garage (\$19,000). Fiscal year 2015-2016 Household product cc (\$1,000), Library (\$2,600), McClintock Pool (\$53,600). Fiscal year 2016-2017 priest yard (\$1,500), Hardy yard building C (\$12,000), priest yard building D (\$58,000). Fiscal year 2017-2018 Ken McDonald maintenance (\$36,000), Ken McDonald proshop (\$19,000), Ken McDonald restaurant (\$78,000).

Faulty and inefficient water heaters are costly to maintain and also have a negative impact to the users of these facilities. By being proactive we are further reducing water damage to facilities, emergency repairs and making our facilities more comfortable for our users and visitors. Delayed replacement will cost the city more over time than replacing units when they are beyond their useful life cycle.

2014-15 Source of Funds

Capital Improvements Reserve	\$19,000
General Obligation Bonds	\$66,125

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$85,125
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$85,125

Project Number: 6705229

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$85,125	\$57,200	\$71,500	\$133,000	\$0	\$346,825

Transportation Program

Transportation projects total \$10.5 million in FY 2014-15 and account for 7% of the 2014-15 appropriated CIP budget



The Transportation element of the Capital Improvements Program includes all new and ongoing improvements put into service under the City's Transportation and Right-of-Way, and Traffic Signal and Street Lighting programs. Combined the two programs represent \$10.5 million of the \$150.4 million Capital Improvements Budget for FY 2014-15.

In FY 2014-15 the three main funding sources for transportation projects are the planned issuance of \$3.5 million in general obligation bonds, \$3.5 million of pay as you go funding from the City's Highway User Revenue Fund, and \$2.8 million in federal grants.

The Transportation and Right-of-Way program is scheduled to complete a variety of arterial and residential street maintenance, resurfacing, and reconstruction projects. The Traffic Signal and Street Lighting program is primarily focused on projects that maintain, replace and upgrade various technologies that support the City's traffic signals system, as well as on street light pole replacement.

Transportation and R.O.W. Improvements Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget	New 2014-15	2014-15 Total	Additional Projected Needs				Total 5-Year
		Re-appropriations	Appropriations	Appropriations	2015-16	2016-17	2017-18	2018-19	Program
Arterial, Collector, and Residential Street									
Asset Preservation: 5499741	Highway User Revenue Fund	-	2,727,029	2,727,029	-	-	-	-	2,727,029
	General Obligation Bonds	487,029	1,478,948	1,965,977	3,105,877	5,045,767	5,539,995	6,816,995	22,474,610
	Project Total	487,029	4,205,977	4,693,006	3,105,877	5,045,767	5,539,995	6,816,995	25,201,639
Bridge Maintenance: 5499898	General Obligation Bonds	291,538	200,000	491,538	200,000	300,000	300,000	300,000	1,591,538
Minor Concrete Improvements: 5401419	General Obligation Bonds	50,501	200,000	250,501	200,000	300,000	300,000	300,000	1,350,501
Potential Federal Grants Contingency:									
5406139	Federal Grants	865,000	135,000	1,000,000	-	-	-	-	1,000,000
Railroad Quiet Zone: 5401901	Capital Projects Fund Balance	342,153	-	342,153	-	-	-	-	342,153
	Federal Grants	700,000	-	700,000	-	-	-	-	700,000
	Project Total	1,042,153	-	1,042,153	-	-	-	-	1,042,153
ROW Landscape Replacement and									
Revitalization: 5406149	Highway User Revenue Fund	100,000	300,000	400,000	300,000	300,000	300,000	300,000	1,600,000
Transportation and R.O.W. Program Total		2,836,221	5,040,977	7,877,198	3,805,877	5,945,767	6,439,995	7,716,995	31,785,831

Arterial, Collector, and Residential Street Asset Preservation



Project Description

This project provides for the reconstruction, resurfacing, and rehabilitation of arterial, collector and residential streets that have exceeded their design life or are in need of maintenance as part of the pavement asset management program. Improvements are necessary to ensure accessibility and safety for residents and businesses on Tempe's streets and to accommodate all modes of traffic including pedestrians, bicyclists, and vehicular traffic. Depending on the condition of the pavement structure, different maintenance treatments are available which can be used to extend the life of the system. These include (in order of cost): crack seal, seal coat, slurry seal, chip seal, Mill and Overlay and the most expensive is a reconstruction.

Fiscal year 14/15 year projects will include McClintock (Elliot to Broadway), and Neighborhood N34 (Mill to Rural and Southern to US60).

Estimated 2014-15 Project Costs

Legal / Administration	\$30,553
Land Acquisition	\$0
Permit Fees	\$58,050
Design and Engineering	\$33,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$4,486,029
Geotech / Material Testing	\$85,374
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$4,693,006

Project Number: 5499741

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

2014-15 Source of Funds

Highway User Revenue Fund	\$2,727,029
General Obligation Bonds	\$1,965,977

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$4,693,006	\$3,105,877	\$5,045,767	\$5,539,995	\$6,816,995	\$25,201,640

Bridge Maintenance



Project Description

Federal law mandates the inspection of all bridges in the country every two (2) years. ADOT has been inspecting Tempe's bridges for many years and submitting a report to the City for required repairs and maintenance. Currently, ADOT inspects 32 bridges for the City in which all are at least twenty years old or older. Repairs are prioritized based upon the sufficiency rating produced by ADOT which varies from each inspection year.

The scope of work includes replacement of damaged joints, joint seals and diaphragms, cleaning debris out of the joints to allow them to function properly, posting of vertical clearance signs, repair of damaged structural members and guardrail, replacement of missing bolts and nuts from railings, correction of settlement at abutments, rehabilitation of bridge decks, and miscellaneous other items. This is done to assure that the bridges are safe and in good repair. This year several bridge decks must be resurfaced and rehabilitated. These include but are not limited to Mill Ave. at the Salt River, Hardy Drive at the Western Canal, and McClintock Drive at the Western Canal.

Estimated 2014-15 Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$8,000
Design and Engineering	\$29,000
Survey / Staking	\$2,000
Construction Management	\$17,000
Furnishings / Equipment	\$0
Construction / Improvement	\$431,538
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$491,538

Project Number: 5499898

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2014-15 Source of Funds

General Obligation Bonds	\$491,538
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$491,538	\$200,000	\$300,000	\$300,000	\$300,000	\$1,591,538

Minor Concrete Improvements



Project Description

This project will provide for peak demands and emergency replacement of broken curbs, gutters, and sidewalks throughout the city. This project supplements the City's concrete program and the strategy of utilizing city forces (two employees) to handle smaller less complex jobs. Other uses of the project include the construction of curbs, gutters, sidewalks and ADA accessible ramps to improve the continuity of the infrastructure and to improve accessibility and mobility for pedestrians in various areas. This project is also used in emergency call out situations as needed. Funds for the project will allow for approximately 18,000 square feet of minor concrete repair per year.

Funding this project is crucial to the citizens by providing safe and easily traversable pedestrian access throughout the city.

2014-15 Source of Funds

General Obligation Bonds	\$250,501
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$250,501
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$250,501

Project Number: 5401419

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$250,501	\$200,000	\$300,000	\$300,000	\$300,000	\$1,350,501

Potential Federal Grants Contingency



Project Description

This Project will create additional spending authority for federal grants that may be available during FY2014-15. The City must account for potential federal grants that could be secured and that need to be spent within FY2014- 2015.

2014-15 Source of Funds

Federal Grants	\$1,000,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$1,000,000
Total	\$1,000,000

Project Number: 5406139

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000

Railroad Quiet Zone



Project Description

In January 2012, the City of Tempe, in conjunction with the Union Pacific Railroad and the regulatory agencies of the Federal Railroad Administration and the Arizona Corporation Commission, established a railroad quiet zone in Tempe. This established quiet zone includes the mainline portion of the Union Pacific Railroad north of Broadway Road from our city limit with Phoenix to our city limit with Mesa.

This capital project would extend the quiet zone along the six mile Union Pacific Railroad industrial spur line which begins at the 13th Street railroad crossing immediately east of Farmer Avenue, traveling south to the Warner Road crossing approximately one quarter mile west of Kyrene Road. Like the existing quiet zone, this quiet zone extension would require approvals by the Arizona Corporation Commission, Union Pacific Railroad and Federal Railroad Administration.

The establishment of the industrial spur quiet zone would prohibit the sounding of train horns at all highway rail crossings except in certain safety situations. It is the intent of the project to establish quiet zone conditions at the Broadway Road, Alameda Drive, Southern Avenue, Baseline Road, Guadalupe Road, Divot Drive, Elliot Road, Carver Lane and Warner Road rail crossings along the spur line.

2014-15 Source of Funds

Capital Projects Fund Balance	\$342,153
Federal Grants	\$700,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$1,042,153
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,042,153

Project Number: 5401901

Estimated Start Date: Ongoing

Estimated Completion Date: 06/30/2015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$1,042,153	\$0	\$0	\$0	\$0	\$1,042,153

ROW Landscape Replacement and Revitalization



Project Description

This project will support the replacement and revitalization of the City's Right of Way (ROW) landscape. Over the last year, Public Works and Community Development staff worked with the former Neighborhood and Education Council Committee to develop a plan to reinvest in the landscape along the City's arterial roadways. This project will provide the resources necessary to continue this program and the goal of making the arterial roadways more pedestrian and multi-modal friendly.

The City of Tempe's right of way and median landscape consists of an eclectic mix of trees and shrubs covering over 5 million square feet of landscape maintained. There is an inventory of over 7,500 city street trees valued at over \$2.5 million which also serves to support clean air and clean water goals.

2014-15 Source of Funds

Highway User Revenue Fund	\$400,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$400,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$400,000

Project Number: 5406149

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$400,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,600,000

Traffic Signals and Street Lighting Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget	New 2014-15	2014-15 Total	Additional Projected Needs				Total 5-Year
		Re-appropriations	Appropriations	Appropriations	2015-16	2016-17	2017-18	2018-19	Program
East Valley Arterial Congestion Monitoring: 6907259									
	General Obligation Bonds	-	50,000	50,000	49,997	-	-	-	99,997
	Federal Grant - CMAQ	-	-	-	165,388	-	-	-	165,388
	Project Total	-	50,000	50,000	215,385	-	-	-	265,385
Fiber Optic Installation & ITS Improv: Elliot, Guadalupe and Warner: 6906179									
	Capital Projects Fund Balance	60,000	-	60,000	-	-	-	-	60,000
	General Obligation Bonds	-	-	-	164,286	-	-	-	164,286
	Federal Grant - CMAQ	-	-	-	383,333	-	-	-	383,333
	Project Total	60,000	-	60,000	547,619	-	-	-	607,619
Fiber Optic Installation and ITS Improv: Broadway/I-10 and Rio Salado/L101: 6906169									
	Capital Projects Fund Balance	15,000	-	15,000	-	-	-	-	15,000
	General Obligation Bonds	-	-	-	17,394	-	-	-	17,394
	Federal Grant - CMAQ	36,000	-	36,000	287,751	-	-	-	323,751
	Project Total	51,000	-	51,000	305,145	-	-	-	356,145
Fiber Optic Installation: Rural Road North: 6907269									
	Highway User Revenue Fund	-	200,000	200,000	-	-	-	-	200,000
	General Obligation Bonds	-	-	-	-	59,455	-	-	59,455
	Federal Grant - CMAQ	-	-	-	-	983,626	-	-	983,626
	Project Total	-	200,000	200,000	-	1,043,081	-	-	1,243,081
Fiber Optic Installation: Rural Road South: NA									
	General Obligation Bonds	-	-	-	19,000	-	53,639	-	72,639
	Federal Grant - CMAQ	-	-	-	-	-	887,389	-	887,389
	Project Total	-	-	-	19,000	-	941,028	-	960,028
HSIP Safety Program Phase 2 (Ped Timers and Preemp Cards): 6905279									
	Capital Projects Fund Balance	5,000	-	5,000	-	-	-	-	5,000
	Federal Grant - HSIP	76,800	-	76,800	-	-	-	-	76,800
	Project Total	81,800	-	81,800	-	-	-	-	81,800
HSIP Safety Program Phase 3 - 5: 6906199									
	Capital Projects Fund Balance	10,000	-	10,000	-	-	-	-	10,000
	General Obligation Bonds	-	34,130	34,130	-	-	-	-	34,130
	Federal Grant - HSIP	106,917	213,834	320,751	-	-	-	-	320,751
	Project Total	116,917	247,964	364,881	-	-	-	-	364,881

2014-15 CIP Projects - Traffic Signals and Street Lighting Program (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2014-15 Appropriations	2014-15 Total Appropriations	Additional Projected Needs				Total 5-Year Program
					2015-16	2016-17	2017-18	2018-19	
New Signals/Safety Upgrades: 6906209	Highway User Revenue Fund	130,000	50,000	180,000	-	-	-	-	180,000
	Developer Assistance	180,000	-	180,000	-	-	-	-	180,000
	Project Total	310,000	50,000	360,000	-	-	-	-	360,000
Street Light Pole Structural Replacement: 6999849	General Obligation Bonds	-	250,000	250,000	250,000	300,000	300,000	300,000	1,400,000
Street Light Upgrade / New Install: 6999869	General Obligation Bonds	-	250,000	250,000	250,000	300,000	300,000	300,000	1,400,000
Traffic Control Cabinets and Hardware Replacement: 6905709	Capital Projects Fund Balance	43,890	-	43,890	-	-	-	-	43,890
	Federal Grant - CMAQ	726,110	-	726,110	-	-	-	-	726,110
	Project Total	770,000	-	770,000	-	-	-	-	770,000
Traffic Signal Foundation: 6903389	General Obligation Bonds	20,027	75,000	95,027	75,000	150,000	150,000	150,000	620,027
Traffic Signal Green Sign Face Replacement: 6906229	General Obligation Bonds	68,773	50,000	118,773	50,000	100,000	100,000	100,000	468,773
Traffic Signals and Street Lighting Program Total		1,478,517	1,172,964	2,651,481	1,712,149	1,893,081	1,791,028	850,000	8,897,739

East Valley Arterial Congestion Monitoring



Project Description

This project will purchase and install 112 Anonymous Re-identification (ARID) Bluetooth devices in existing signal cabinets across the East Valley including approximately 45 in Tempe. The project includes central control software for each partnering agency's TMC. The data from the devices will be shared via the Regional Archive Data System (RADS) and disseminated via a web map which may graphically display speed or congestion levels. Travel times to/from various destinations will also be calculated using the shared agency data as well as existing ADOT data. Travel times could be disseminated via the web or an arterial dynamic message sign.

Mesa and Chandler have previously installed ARID devices. This project expands their existing coverage and expands the coverage into Gilbert and Tempe. The devices will facilitate the calculation of travel times across city boundaries and incorporate ADOT data to provide travelers with information for trip making decisions. The information will be available to the public in the form of an on-line map on the City's web page.

2014-15 Source of Funds

General Obligation Bonds	\$50,000
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$50,000	\$215,385	\$0	\$0	\$0	\$265,385

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$50,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$50,000

Project Number: 6907259

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2016

Fiber Optic Installation & ITS Improv: Elliot, Guadalupe and Warner



Project Description

Tempe currently uses leased phone lines to facilitate traffic signal operations. This project will use an existing conduit along Elliot for fiber optic communication to the signals. In addition, wireless radios will be used to provide communication to signals along Guadalupe and Warner to the fiber optic line on Elliot. CCTVs will be placed at the major intersections for traffic monitoring. Seventy percent of this project will be funded through a CMAQ grant as part of the MAG TIP.

The project will be used to monitor and adjust signal timing through centralized command and control strategies to improve traffic flow and minimize congestion along the corridors of Elliot Rd, Guadalupe Rd, and Warner Rd. This project promotes multi-jurisdictional congestion relief by providing a platform to better coordinate traffic signals as well as responding to accidents/incidents in a more cooperative and efficient process.

2014-15 Source of Funds

Capital Projects Fund Balance	\$60,000
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$60,000	\$547,619	\$0	\$0	\$0	\$607,619

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$60,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$60,000

Project Number: 6906179

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2016

Fiber Optic Installation and ITS Improv: Broadway/I-10 and Rio Salado/L101



Project Description

This project will provide the City with a reliable communications network to be able to view, monitor, and actively manage traffic conditions both on the arterial streets and at the freeway ramp intersections to reduce delay and improve traffic flow. The project will install new conduit and make use of existing conduit to provide fiber connection from ADOT's node 12 building to the signals at Broadway and Ramp K, Broadway and 48th St, and 48th St and Ramp C. Wireless radios will be installed at Broadway and Ramp L, 48th and Cotton Center, 48th and Alameda, and 48th and Southern. High speed DSL copper communications will be installed along Rio Salado and McClintock. Communications devices to be installed include fiber optic cable, pull boxes, splice closure, patch panels, fiber optic jumper cables, VDSL switches, and Ethernet switches. The project also includes purchasing and installing 22 CCTV cameras for each interchange intersection in Tempe.

2014-15 Source of Funds

Capital Projects Fund Balance	\$15,000
Federal Grant - CMAQ	\$36,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$51,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$51,000

Project Number: 6906169

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2016

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$51,000	\$305,145	\$0	\$0	\$0	\$356,145

Fiber Optic Installation: Rural Road North



Project Description

The project will install conduit and fiber in the Rural Rd corridor from US 60 north. Conduit location will vary along the route and could include installation under the roadway, under LRT, and on a bridge. Devices to be installed to complete the system include pull boxes, splice closures, patch panels, fiber optic jumper cables, and Ethernet switches. The installation will be based on the overall design of the Rural Rd fiber corridor which will be funded locally.

The purpose is to provide the City with a reliable communications network to be able to view, monitor, and actively manage traffic conditions. The ultimate goal is to have a hybrid fiber/wireless network that will increase communications bandwidth, eliminate the need for telephone lease lines, and improve system performance.

2014-15 Source of Funds

Highway User Revenue Fund	\$200,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$200,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$200,000

Project Number: 6907269

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2017

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$200,000	\$0	\$1,043,081	\$0	\$0	\$1,243,081

Fiber Optic Installation: Rural Road South



Project Description

The project will install conduit and fiber in the Rural Rd corridor from US 60 south to the City limits. Conduit location will vary along the route and could include installation under the roadway or behind sidewalk. Devices to be installed to complete the system include pull boxes, splice closures, patch panels, fiber optic jumper cables, and Ethernet switches. The installation will be based on the overall design of the Rural Rd fiber corridor which will be funded locally and completed in conjunction with the Rural Rd Fiber North project.

The purpose is to provide the City with a reliable communications network to be able to view, monitor, and actively manage traffic conditions. The ultimate goal is to have a hybrid fiber/wireless network that will increase communications bandwidth, eliminate the need for telephone lease lines, and improve system performance.

2014-15 Source of Funds

NA

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$0

Project Number: NA

Estimated Start Date: 07/01/2015

Estimated Completion Date: 06/30/2018

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$0	\$19,000	\$0	\$941,028	\$0	\$960,028

HSIP Safety Program Phase 2 (Ped Timers and Preemp Cards)



Project Description

Nationwide research has demonstrated that there are significant safety benefits resulting from the installation of pedestrian countdown timers at signalized intersections. As part of a continuing transportation safety program this project will procure equipment needed to upgrade all pedestrian signal heads at all 22 intersections (10% of the system) along the light rail alignment in the City of Tempe to pedestrian countdown timers. In addition, in order to improve emergency vehicle response times and safety of first-responders, this project will also procure equipment needed to upgrade 20 intersections (9% of the system) along the Rural Road and McClintock Drive corridors with new emergency preemption cards. One hundred percent of the equipment procurement for this project will be funded through a federal Highway Safety Improvement Program (HSIP) grant as part of the MAG TIP. A minimal amount of local funding will be required for installation. This project will help supplement the limited operating budget available to address these components in the system.

2014-15 Source of Funds

Capital Projects Fund Balance	\$5,000
Federal Grant - HSIP	\$76,800

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$76,800
Construction / Improvement	\$5,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$81,800

Project Number: 6905279

Estimated Start Date: 07/01/2012

Estimated Completion Date: 06/01/3015

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$81,800	\$0	\$0	\$0	\$0	\$81,800

HSIP Safety Program Phase 3 - 5



Project Description

Nationwide research has demonstrated that there are significant safety benefits resulting from the installation of pedestrian countdown timers at signalized intersections. As part of a continuing transportation safety program this project will procure equipment needed to upgrade all remaining pedestrian signal heads in the City of Tempe to pedestrian countdown timers. Phase 3 will upgrade 52 intersections (23% of the system), Phase 4 will upgrade 51 intersections (23% of the system) and Phase 5 will upgrade 35 intersections (16% of the system). In addition, in order to better serve our visually impaired community, this project will also procure equipment needed to upgrade 11 intersections along the light rail alignment and near Tempe high schools with audible pedestrian push-buttons. One hundred percent of the equipment procurement for this project will be funded through a federal Highway Safety Improvement Program (HSIP) grant as part of the MAG TIP. A minimal amount of local funding will be required for installation. This project will help supplement the limited operating budget available to address these components in the system.

2014-15 Source of Funds

Capital Projects Fund Balance	\$10,000
General Obligation Bonds	\$34,130
Federal Grant - HSIP	\$320,751

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$364,881	\$0	\$0	\$0	\$0	\$364,881

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$320,751
Construction / Improvement	\$44,130
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$364,881

Project Number: 6906199

Estimated Start Date: Ongoing

Estimated Completion Date: 06/30/2015

New Signals/Safety Upgrades



Project Description

This project provides for the installation of new traffic signals and associated equipment based on traffic engineering studies and warrants. It will also allow for replacement of existing outdated signals and address all safety updates to meet state and federal regulations. A modular intersection costs an average of \$180,000 depending on the size of intersection, which takes into account two modular poles at each corner. This will allow the city to upgrade approximately one of the city's 221 signalized intersections every other year and/or add one new traffic signal based on traffic engineering warrants.

2014-15 Source of Funds

Highway User Revenue Fund	\$180,000
Developer Assistance	\$180,000

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$360,000	\$0	\$0	\$0	\$0	\$360,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$360,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$360,000

Project Number: 6906209

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Street Light Pole Structural Replacement



Project Description

The project will fund the replacement of existing rusted streetlight poles that are direct buried and provide funding to replace all direct buried street light poles to meet our current streetlight pole foundation standards. Of the 11,080 streetlight poles there are approximately 3,605 direct buried street light poles left in our inventory that need to be replaced at a rate of 100-150 per year, based on their corrosion factor as provided by the study completed October 2011. The study indicates corrosion factors on a 1-100% scale (100% meaning structural integrity has been compromised). The poles from 26% to 100% have been replaced and this project would allow us to continue to address the remaining direct buried poles that fall under the 26% corrosion factor rating and that currently do not pose an immediate health and safety concern.

The purpose of the project is to be proactive by providing structurally sound streetlight poles that conform to our engineering standards and that will also enhance our long term goal of ensuring landscape irrigation does not impact the structural integrity of our infrastructure. The streetlight poles with a foundation have a life expectancy of 30+ years compared to a direct buried pole that may only have a 15-20 year life span.

2014-15 Source of Funds

General Obligation Bonds	\$250,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$250,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$250,000
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Project Number: 6999849

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$250,000	\$250,000	\$300,000	\$300,000	\$300,000	\$1,400,000

Street Light Upgrade/New Install



Project Description

This project allows staff to strategically prioritize improvements to the street light system including the installation of arterial dual-side street lights and residential street lights per citizen request, as well as upgrading approximately 4000 existing inefficient Mercury Vapor and High Pressure Sodium streetlight luminaires to environmentally friendly and energy efficient luminaires throughout the city. Salt River Project charges Tempe a flat rate energy fee based on type of fixture and will realize some energy savings as well as see significant savings in our maintenance costs. Currently Identified locations for upgrades include the following: Southern Ave between Price Rd and East city limits (15) lights, and Warner Rd Street lighting (13) lights.

2014-15 Source of Funds

General Obligation Bonds	\$250,000
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$250,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$250,000
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Project Number: 6999869

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$250,000	\$250,000	\$300,000	\$300,000	\$300,000	\$1,400,000

Traffic Control Cabinets and Hardware Replacement



Project Description

Current traffic signal control cabinets were installed in 1995 through 1998 and will be approaching the typical product life cycle in the year 2013. As part of a continuing transportation management program this project will procure equipment needed to upgrade and rehabilitate 50 of the city's 222 traffic signal control cabinets. As a practical matter, the inventory is aging and must eventually be replaced to minimize maintenance calls and to foster a high quality preventative maintenance program. Seventy percent of this project will be funded through a CMAQ grant as part of the MAG TIP.

This project will allow Tempe to replace its aging traffic signal cabinet inventory with new signal cabinets, which will reduce maintenance costs in the long term and improve the reliability and safety of the traffic signal control operation, thus minimizing our liability. The new traffic signal cabinets will provide the city's signal technicians with enhanced diagnostic tools to troubleshoot intersection malfunctions. These enhanced capabilities will facilitate increased intersection reliability and ultimately provide for safer traffic control operations.

2014-15 Source of Funds

Capital Projects Fund Balance	\$43,890
Federal Grant - CMAQ	\$726,110

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$770,000	\$0	\$0	\$0	\$0	\$770,000

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$770,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$770,000

Project Number: 6905709

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2015

Traffic Signal Foundation



Project Description

The City's transportation system includes 222 signalized intersections and associated infrastructure to support the safe movement of all modes of travel in Tempe. This project provides for the installation of new traffic signals and installation/repair of existing equipment related to the traffic signal system and as warranted by traffic engineering studies. In addition, this project provides for the management and replacement of underground signal system assets which have been identified for repair and replacement. The program includes a proactive asset management element where components are replaced to ensure the signal system is operating safely and efficiently.

Next fiscal year, the following items are planned for replacement: Intersection lighting improvements at four signalized intersections; Replace two signal poles at Apache and Terrace & at McClintock and Warner. Replace and rewire underground infrastructure at three signalized intersections. Re-configure signal poles and heads at Elliot and Harl Ave. In addition, the CIP provides for unexpected emergency repairs that occur throughout the year and are needed to ensure the system remains functional.

2014-15 Source of Funds

General Obligation Bonds	\$95,027
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Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$95,027	\$75,000	\$150,000	\$150,000	\$150,000	\$620,027

Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$95,027
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$95,027

Project Number: 6903389

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Traffic Signal Green Sign Face Replacement



Project Description

This project will allow for the replacement of the traffic signal internally illuminated green signs which have exceeded their expected life. As part of the development of the Traffic Engineering and Operations Division Asset Management Plan, staff has identified the green signs as an asset in the system for inclusion in the plan and development of a program for the systematic replacement of the signs.

Current traffic signal internally illuminated green signs have been in place for at least 15+ years and have exceeded their product life cycle. This project will begin the process of replacing sign faces (8 per intersection) at a rate of 6 intersections per year with a total of 90 modular signalized intersections to complete. This project will allow Tempe to replace its aging green sign faces, which will increase visibility and improve safety for the motoring public.

2014-15 Source of Funds

General Obligation Bonds	\$118,773
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Estimated 2014-15 Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$118,773
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$118,773
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Project Number: 6906229

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Appropriations by Fiscal Year

2014-15	2015-16	2016-17	2017-18	2018-19	Total 5 Year
\$118,773	\$50,000	\$100,000	\$100,000	\$100,000	\$468,773

